

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

June 25, 2018

**PLEDGE OF ALLEGIANCE**

**CALL TO ORDER**

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

**ROLL CALL**

Directors LaMar, Matheis, Swan, Withers and President Reinhart

**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 three 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.

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**COMMUNICATIONS TO THE BOARD**

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1. A. Written:

B. Oral:

2. ITEMS RECEIVED TOO LATE TO BE AGENDIZED

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

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**PUBLIC HEARING**

**Resolution No. 2018-16**

3. PROPOSED CHANGED TO THE SCHEDULE OF THE RATES AND CHARGES EFFECTIVE JULY 1, 2018

Reso. 2018-

Recommendation: That the Board adopt a resolution Rescinding Resolution No. 2017-17 and adopting changes to the schedule of rates and charges as set forth in Exhibit "B" to the Rules and Regulations of Irvine Ranch Water District for Water, Sewer and Recycled Water Service.

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**CONSENT CALENDAR**

**Items 4-15**

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

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

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**CONSENT CALENDAR - Continued**

**Items 4-15**

5. MINUTES OF REGULAR BOARD MEETINGS

Recommendation: That the minutes of the June 11, 2018 and June 18, 2018 Regular Board Meetings be approved as presented.

6. 2018 LEGISLATIVE AND REGULATORY UPDATE

Recommendation: That the Board adopt an "Oppose" Position on SB 998 (Dodd, D-Napa) and a "Support" position on The Water Supply and Water Quality Act of 2018.

7. MAY 2018 TREASURY REPORTS

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report, the Monthly Interest Rate SWAP Summary for May 2018, and Disclosure Report of Reimbursements to Board members and staff; approve the May 2018 Summary of Payroll ACH payments in the total amount of \$1,863,936 and approve the May 2018 Accounts Payable Disbursement Summary of Warrants 387443 through 388468, Workers' Compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$14,875,476.

8. PLANNING AREA 51 HERITAGE FIELDS CAPITAL FACILITIES

Recommendation: That the Board authorize the General Manager to accept Heritage Fields' Construction Contract with Fydaq Company Inc. in the amount of \$130,413 for the District 5 Cadence South Sewer Improvements, project 10117; authorize the General Manager to accept Heritage Fields' Construction Contract with Fydaq in the amount of \$598,335 for the District 5 Chinon Street Domestic Water, Sewer And Recycled Water Improvements, projects 10022, 10023 and 10024; approve Contract Change Order No. 1 to projects 10022, 10023 and 10024 in the amount of \$124,418.98 for additions to quantities originally contracted to the District 5 Chinon Street Domestic Water, Sewer And Recycled Water Improvements; authorize the General Manager to Accept Heritage Fields' Construction Contract with Fydaq in the amount of \$1,056,852 for the District 5 "A" Street Domestic Water And Recycled Water Improvements, projects 10343 and 10344; and approve Contract Change Order No. 3 to projects 06048 and 05788 in the amount of \$226,934 for tasks related to extending sewer pipelines across and within Barranca Parkway.

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**CONSENT CALENDAR - Continued**

**Items 4-15**

9. TUSTIN LEGACY MOFFETT DRIVE AND LEGACY ROAD CAPITAL DOMESTIC AND RECYCLED WATER FACILITIES BUDGET INCREASE AND CONTRACT CHANGE ORDER

Recommendation: That the Board authorize a budget increase in the amount of \$160,000, from \$643,000 to \$803,000, for project 10260; authorize a budget increase in the amount of \$125,000, from \$643,000 to \$768,000, for project 10261; and approve contract Change Order No. 2 in the amount \$219,711 for the Moffett Drive and Legacy Road Capital Domestic and Recycled Water Improvements.

10. ELDERWOOD SEWER UPSIZING CONSTRUCTION AWARD

Recommendation: That the Board authorize the General Manager to execute a construction contract with GCI Construction in the amount of \$183,260 for the Elderwood Sewer Upsizing, project 10095.

11. MICHELSON WATER RECYCLING PLANT BIOSOLIDS AND ENERGY RECOVERY FACILITIES CONTRACT CHANGE ORDER NO. 84

Recommendation: That the Board approve Contract Change Order No. 84 in the amount of \$105,492.90 with Filanc/Balfour Beatty for electrical items due to the addition of grease pumps to the methane digester mixers for the Michelson Water Recycling Plant Biosolids and Energy Recovery Facilities, project 04286.

12. ADOPTION OF FISCAL YEAR 2018-2019 DISTRICT SALARY GRADE SCHEDULES AND COST OF LIVING ADJUSTMENT FOR MANAGERS, EXEMPT SUPERVISORS, CONFIDENTIAL AND EXEMPT EMPLOYEES AND ADOPTION OF REVISED SALARY GRADE SCHEDULE FOR THE GENERAL EMPLOYEES UNIT AND THE NEW SALARY GRADE SCHEDULE FOR THE NON-EXEMPT SUPERVISOR UNIT

Recommendation: 1) That the Board approve the revised Managers, Exempt Supervisors, Confidential and Exempt Employees Salary Grade Schedule, approve a July 1, 2018 4% Cost of Living adjustment for salaries of employees in positions listed in the Managers, Exempt Supervisors, Confidential and Exempt Employees Salary Grade Schedule, and adopt a resolution by title rescinding Resolution No. 2017- 16 and adopting revised salary grade schedule for Managers, Exempt Supervisors, Confidential and Exempt Employees; and 2) that the Board approve the revised salary grade schedule of positions for the General Employee Unit and the salary grade schedule for the new Non-exempt Supervisor Unit with no changes to salary rate ranges and adopt a resolution by title establishing revised salary grade

Reso. No. 2018-  
Reso. No. 2018-

schedule for the General Employees Unit and a new salary grade schedule for the Non-Exempt Supervisor Unit.

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**CONSENT CALENDAR - Continued**

**Items 4-15**

13. FY 2018-19 OPERATING BUDGET VENDOR EXPENDITURE COMMITMENTS GREATER THAN \$100,000

Recommendation: That the Board approve the list of vendor commitments greater than \$100,000 based on approved FY 2018/19 Operating Budget expenditures.

14. REIMBURSEMENT TO BOARD MEMBER FOR BUSINESS EXPENSES

Recommendation: That the Board approve the expense report submitted for Reimbursement for business mileage expenses incurred by Director Peer Swan.

15. PRETREATMENT PROGRAM DEVELOPMENT AND IMPLEMENTATION CONSULTANT SELECTION

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with EEC Environmental to develop and implement a pretreatment program in the amount of \$140,580.

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**ACTION CALENDAR**

16. ZONE I RESERVOIR CONSULTANT SELECTION AND CONSTRUCTION AWARD

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with Tetra Tech, Inc. in the amount of \$290,000 for Engineering Support Services during Construction; and authorize the General Manager to execute a construction contract with Pacific Hydrotech Corporation in the amount of \$9,688,996, for the 3.7 Mg Zone 1 Reservoir, project 06401.

17. GET SMART WATER-ENERGY CUSTOMER PROGRAM

Recommendation: That the Board authorize the General Manager to execute the Installation Services Agreement with Eagle Systems International, Inc. doing business as Synergy Companies, for the Get Smart program that commits funding in the amount of \$350,000, subject to non-substantive changes.



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**OTHER BUSINESS**

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18. CLOSED SESSION

- A. CLOSED SESSION CONFERENCE WITH REAL PROPERTY NEGOTIATORS - Government Code Sec. 54956.8 - Related to Potential Sale of Rights to Water in the IRWD Water Bank to Municipal Water District of Orange County.  
*IRWD negotiators:* Paul Cook, General Manager and Paul Weghorst, Executive Director of Water Policy.  
*Negotiating parties:* Municipal Water District of Orange County.  
*Under negotiation:* Price and terms of payment of acquisition of rights to water.
- B. Open Session
  - a. Report of any action in Closed Session.

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**ACTION CALENDAR (Continued)**

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19. PROPOSED TERMS FOR A SHARED RELIABILITY PILOT PROGRAM

Recommendation: That the Board approve the general terms that define the roles of IRWD and MWDOC in implementing the program, and contingent on the Board's approval of the pricing and program duration terms, authorize staff and legal counsel to work with MWDOC and its legal counsel to prepare a draft agreement for the Board's consideration that is based on the combined terms.

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**OTHER BUSINESS (Continued)**

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Pursuant to Government Code Section 54954.2, members of the Board of Directors or staff may ask questions for clarification, make brief announcements, and make brief reports on his/her own activities. The Board or a Board member may provide a reference to staff or other resources for factual information, request staff to report back at a subsequent meeting concerning any matter, or direct staff to place a matter of business on a future agenda. Such matters may be brought up under the General Manager's Report or Directors' Comments.

- 20. A. General Manager's Report
- B. Directors' Comments

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**OTHER BUSINESS (Continued)**

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C. Closed Session

1. CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION - Significant Exposure to Litigation, Government Code Sec. 54956.9(d)(3): 2 matters – Request for Leave to File a Late Claim of Gleason; Claim of County of Orange. (Claim forms are available for public inspection per Gov. C. Section 54957.5.)

D. Open Session

- a. Report of any action in Closed 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.

June 25, 2018

Prepared by: Christopher Smithson

Submitted by: Cheryl Clary

Approved by: Paul Cook

## PUBLIC HEARING

### PROPOSED CHANGES TO THE SCHEDULE OF RATES AND CHARGES EFFECTIVE JULY 1, 2018

#### SUMMARY:

The Fiscal Year (FY) 2018-19 Operating Budget was adopted at the April 23, 2018 Board meeting. The proposed changes to the District's rates and charges were publicly noticed by mail as required under Proposition 218, and protests to the implementation of those rates and charges have been tallied by the District's independent auditors. As of June 22, 2018, 3 written protest letters were received by the District, which represents less than 0.01% of the total customers, substantially less than the 50% which would have been required to prevent the Board from adopting the current proposed rates and charges. Protests may be received up until the commencement of the public hearing; staff will provide an updated report as part of the hearing process.

Pursuant to the requirements of Proposition 218, a Public Hearing on the rates and charges is required. Following the Public Hearing, staff recommends that the Board adopt the proposed changes to the Schedule of Rates and Charges required to fund operating expenses.

#### OUTLINE OF PROCEEDINGS

**President:** Declare this to be the time and place for a hearing on the proposed changes to the rates and charges. Ask the Secretary how the hearing was noticed.

**Secretary:** The hearing was noticed by mail. Present affidavit of mailing.

**Board:** RECOMMENDED MOTION: "RECEIVE AND FILE THE AFFIDAVIT OF MAILING BY AN INDEPENDENT PROCESSING FIRM AS PRESENTED BY THE SECRETARY."

**President:** Request Legal Counsel to describe the nature of the proceedings.

**Legal**

**Counsel:** The public hearing is held, pursuant to Proposition 218, Article XIID of the Constitution of the State of California, for all persons interested to be heard, to present objections or protests, including any written comments submitted, concerning the increase in property-related rates and charges and any proposed new property-related rates and charges.

**President:** Request a staff report from the Executive Director of Finance or her Designee on the proposed rates and charges and inquire whether there have been any written communications.

Executive  
Director  
of Finance or

Designee: Provide staff report and respond regarding the number of protests received to the implementation of the rates and charges.

President: Inquire whether there is anyone present who wishes to address the Board regarding the proposed changes to the rates and charges.

President: Inquire whether there are any comments or questions from members of the Board of Directors. After comments or questions, state that the hearing will be closed.

Board: RECOMMENDED MOTION: THAT THE HEARING BE CLOSED AND THAT THE FOLLOWING RESOLUTION BE ADOPTED BY TITLE:

RESOLUTION NO. 2018 -

RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE RANCH  
WATER DISTRICT, ORANGE COUNTY, CALIFORNIA  
RESCINDING RESOLUTION NO. 2017-17 AND ADOPTING  
CHANGES TO THE SCHEDULE OF RATES AND CHARGES AS  
SET FORTH IN EXHIBIT "B" TO THE RULES AND  
REGULATIONS OF IRVINE RANCH WATER DISTRICT  
FOR WATER, SEWER AND RECYCLED WATER SERVICE

BACKGROUND:

Proposed Rates and Charges for FY 2018-19:

A redline version showing the changes to the rates and charges proposed for FY 2018-19 is attached as Exhibit "B". The proposed changes include both updates identified through the rate setting process and changes to the wording and format to better communicate the application of the District's rates to the customer.

All changes from the factors identified were included in the budget and rate setting process. Staff has reviewed costs and revenues for the treated water system, the untreated water system, the sewer system, and the recycled water system. As a result of this review, changes to the water and sewer rates for the Irvine Ranch Water District recommended for FY 2018-19 include:

*Irvine Ranch Rate Area*

Treated Water System:

- The treated water tiered rates are based on cost of service and will provide the necessary funding for the water system. The rates are as follows (per ccf):

<b>Tiers</b>	<b>FY 2018-19</b>	<b>FY 2017-18</b>	<b>Change</b>
Low Volume	\$1.40	\$1.36	\$0.04
Base Rate	\$1.89	\$1.70	\$0.19
Inefficient	\$4.73	\$4.09	\$0.64
Wasteful	\$13.35	\$12.06	\$1.29

- The monthly fixed service charge for the treated water system increased from \$10.30 to \$10.35 for a 5/8” by 3/4” meter. The monthly service charge includes a user rate contribution of \$0.70 per month for capital infrastructure enhancements and \$2.10 per month for capital infrastructure replacements.

**Sewer System:**

- The sewer system rates are based on cost of service. The rates identified will provide the necessary funding for the sewer system. There is no change to the current monthly sewer service charge. A typical residential customer based on the average use of 6-10 ccf’s per month for the lowest three months will remain at \$23.20. Included is a user rate contribution of \$0.82 per month for capital infrastructure enhancements and \$9.31 per month for capital infrastructure replacements.

**Recycled Water System:**

- The recycled commodity rates are based on cost of service. The rates identified will provide the necessary funding for the recycled system.
- An increase to the low volume rate of \$0.12, from \$1.01 to \$1.13 per ccf.
- An increase to the base commodity rate of \$0.11 per ccf, from \$1.36 to \$1.47 per ccf.
- The monthly fixed service charge for the recycled water system increased from \$10.30 to \$10.35 for a 5/8” by 3/4” meter. The monthly service charge includes a user rate contribution of \$0.70 per month for capital infrastructure enhancements and \$2.10 per month for capital infrastructure replacements.

A proposed redline version of the schedule of rates and charges is provided as Exhibit “B”, and contains the proposed rates for FY 2018-19.

**User/Replacement and Enhancement Capital Component:**

The replacement component remains unchanged for water and sewer as noted above. Combined with the existing replacement and enhancement rate components, the total capital components are estimated to generate \$25.1 million and \$4.0 million on the treated water and sewer systems, respectively.

**Comparison to City of Orange Rates:**

On August 28, 2006, IRWD and the City of Orange executed an agreement by which IRWD would provide services to the area known as the “Santiago Hills II / East Orange Area”. One of the conditions stipulated in this agreement was that the cumulative fixed and commodity charges

for water service to an IRWD customer using the City of Orange median amount of water (18 ccf per month) would not exceed the same charges incurred by a City of Orange customer. Based on the rates as proposed for FY 2018-19, a customer in IRWD using 18 ccf per month would pay an average of \$40.45 per month for fixed and commodity charges. Based on the most current water rates in the City of Orange, a customer using 18 ccf per month would pay an average of \$52.24 per month for fixed and commodity charges, or 29.1% more than a comparable ratepayer in IRWD.

Proposition 218 Notice:

Proposition 218, enacted in 1996, mandates that proposed increases in “property-related fees” must be noticed to property owners, and that such owners have an opportunity to protest prior to the enactment of the fee increases. While water districts and sewer agencies throughout the state believed, based on court decisions, that water and sewer service was exempt from this requirement, in July 2006, the California Supreme Court issued a decision in the matter of Bighorn, which held that water delivery charges are property-related. Following the Supreme Court’s logic, most interpretations of the decision are that both water and sewer charges should be noticed in order to be in compliance with Proposition 218.

Under Proposition 218, the notice to customers must be sent to all property owners. As permitted by statute, the District sent its notices to all of its customers (including tenants) in the District’s service area at their billing addresses.

The District contracted with Davis Farr, Certified Public Accountants to collect and count the rate increase protests. They will provide management with a report prior to the Board meeting on June 25, 2018 (more than 45 days from the date of mailing the Prop 218 notices), and they will be present at the Public Hearing established for approval of the rates to answer questions on the process and final results.

As of June 21, 2018, the District received 3 written protests from property owners in the District at a separate post office box from the rest of the District’s mail. The 3 written protests represent 0.003% of the 101,283 notices sent and 1.21% were returned as undeliverable. Under Proposition 218, more than 50% of the IRWD customers would have to protest in order to prevent the Board from adopting the Proposed Rates and Charges.

Copies of all 3 protest letters received to date are attached as Exhibit “C”.

ENVIRONMENTAL COMPLIANCE:

The establishment, modification, structuring, restructuring or approval of rates, tolls, fares, or other charges by public agencies are exempt from the requirements of the California Environmental Quality Act (CEQA) provided that certain findings are made specifying the basis for the claim of exemption. The necessary findings are contained in the proposed resolution.

FISCAL IMPACTS:

The District's FY 2018-19 Consolidated Operating Budget totals \$157.1 million, representing a \$8.5 million or 5.7% increase from the Fiscal Year 2017-18 Operating Budget. The proposed adjustments to the District's Schedule of Rates and Charges will generate approximately \$1.5 million of additional revenue for the treated water system and approximately \$1.4 million of additional revenue in the recycled system.

COMMITTEE STATUS:

The proposed changes to the Schedule of Rates and Charges were reviewed by the:

- Finance and Personnel Committee on March 8, 2018, March 19, 2018, and April 3, 2018.
- Board of Directors at a Workshop on April 9, 2018 and April 23, 2018.

LIST OF EXHIBITS:

Exhibit "A" – Resolution to Adopt Schedule of Rates and Charges  
Exhibit "B" – Proposed changes to the Schedule of Rates and Charges  
Exhibit "C" – Protest Letters received as of June 18, 2018  
Exhibit "D" – Draft PowerPoint Presentation

EXHIBIT "A"

RESOLUTION NO. 2018-16

RESOLUTION OF THE BOARD OF DIRECTORS OF  
IRVINE RANCH WATER DISTRICT  
ADOPTING CHANGES TO THE SCHEDULE OF RATES AND CHARGES  
AS SET FORTH IN EXHIBIT "B" TO THE RULES AND  
REGULATIONS OF IRVINE RANCH WATER DISTRICT  
FOR WATER, SEWER AND RECLAIMED WATER SERVICE

The Irvine Ranch Water District ("IRWD") is a California Water District organized and existing under the California Water District Law, and all of the lands within the boundaries of IRWD are located in the County of Orange, State of California.

Sections 35423, 35470 and Section 35501 of the California Water Code empower IRWD to establish, print and distribute equitable rules and regulations and prescribe and collect rates or other charges for water and sewer service.

The Board of Directors of IRWD, by adoption of Resolution No. 2018-14 approved and adopted "Rules and Regulations of Irvine Ranch Water District for Water, Sewer, Recycled Water, and Natural Treatment System Service," effective May 29, 2018.

Exhibit "B" of the Rules and Regulations sets forth Rates and Charges, which may be changed from time to time. Section 21080(b)(8) of the Public Resources Code provides that the establishment, modification, structuring, restructuring or approval of rates, tolls, fares, or other charges by public agencies are exempt from the requirements of the California Environmental Quality Act (CEQA) provided that certain findings are made specifying the basis for the claim of exemption.

Article XIII B of the Constitution of the State of California, limiting local agencies' appropriations of proceeds of taxes, excludes user charges or fees or regulatory fees from the definition of proceeds of taxes, as long as such fees and charges do not produce revenue exceeding the costs reasonably borne in providing the regulation, product or service, and further excludes appropriations for debt service and appropriations for qualified capital outlay projects from appropriations subject to limitation.

IRWD conducted a cost of service and rate design study through its consultant, Carollo Engineers, and the Board of Directors has received the final study dated June 18, 2015 (the "Cost Study"), as well as a Fats, Oils, and Grease Fees Study prepared by Raftelis Financial Consultants, Inc. dated February 22, 2018 ("FOG Study").

The Board of Directors of IRWD deems it advisable and finds that it would be in the best interest of the District to amend or establish certain rates and charges, consistent with applicable constitutional and statutory requirements and consistent with recommendations described in the Cost Study and the FOG Study.



Article XIID of the Constitution of the State of California provides that, in imposing or increasing any property-related fee or charge, an agency shall provide written notice by mail of the proposed fee or charge to the record owner of each identified parcel upon which the fee or charge is proposed for imposition, the amount, basis of calculating, and reason for such proposed fee or charge, and the date, time and location of a public hearing on the proposed fee or charge to be conducted not less than 45 days after the mailing of said notice, and Government Code Section 53755 provides for such notice to be given by mailing to the address where billing statements are customarily sent by the District.

A mailed notice was given, setting Monday, June 25, 2018, at 5:00 p.m. in the Board of Directors Room of Irvine Ranch Water District, 15600 Sand Canyon Avenue, Irvine, California, as the time and place for a public hearing on the proposed increases in property-related rates and charges and any proposed new property-related rates and charges set forth in Exhibit A to this resolution.

At the time set, the duly noticed public hearing was held and all persons interested were given an opportunity to be heard concerning the increases in property-related rates and charges and any proposed new property-related rates and charges.

This Board of Directors has considered all protests presented to the District by owners of identified parcels against the proposed increases in property-related rates and charges and any proposed new property-related rates and charges.

The Board of Directors previously adopted rates and charges under Resolution 2017-17, and the Board of Directors intends in adopting this Resolution to rescind, supersede, and replace Resolution 2017-17.

The Board of Directors of IRWD therefore resolves as follows:

Section 1. It is hereby found and determined that the number of written protests presented to the District against the proposed increases in property-related rates and charges and any proposed new property-related rates and charges has been tabulated and does not constitute a majority of the number of owners of identified parcels.

Section 2. It is hereby found and determined that the proposed changes to the Schedule of Rates and Charges are within the purposes set forth in Section 21080(b) of the Public Resources Code including but not by way of limitation, the purposes of (1) meeting operating expenses, (2) purchasing or leasing supplies, equipment or materials, (3) meeting financial reserve needs and requirements, and (4) obtaining funds for capital projects necessary to maintain service within existing areas, and therefore, that such changes are exempt from CEQA.

Section 3. The recommendations set forth in the Cost Study (Section 4.3.2 - decoupling of recycled water rates; Section 4.5.1 – low volume credit; and Section 4.5.6 – three month minimum use to establish volumetric sewer service charge blocks) are hereby adopted.

Section 4. It is hereby found and determined that the rates, charges and fees adopted hereby are imposed upon the request for or use of services; that the rates, charges and fees recover and allocate the costs of service in accordance with the criteria and requirements of the

Constitution of the State of California; and that the water user charges satisfy the criteria and requirements of Water Code Sections 370 *et seq.* relating to allocation-based conservation water pricing.

Section 5. It is hereby found and determined that relative to Article XIII B of the Constitution of the State of California, the user charges and fees and regulatory fees established or increased hereby do not produce revenues exceeding the costs reasonably borne in providing the regulation, product or service and/or are used for debt service or qualified capital outlay projects and accordingly do not constitute proceeds of taxes, the appropriation of which is limited under Article XIII B, and that the documentation used in making such determinations has been on file in the office of IRWD for not less than 15 days prior to the date hereof, pursuant to Section 7910 of the Government Code of the State of California.

Section 6. The new and/or revised rates, fee and/or charge as set forth in Exhibit "A" attached to this resolution and by this reference incorporated herein are hereby adopted, and the corresponding rates, fees or charges set forth in Exhibit B that are currently in effect as a result of the adoption of Resolution 2017-17, are hereby superseded and Resolution 2017-17 is hereby rescinded. Staff is directed to incorporate the new or revised rates, fees, and charges as Exhibit "B" to the Rules and Regulations.

Section 7. That the provisions of this Resolution shall be effective upon adoption.

Section 8. That the Secretary is hereby ordered and directed to post a certified copy of this Resolution in a public place within the Irvine Ranch Water District.

ADOPTED, SIGNED and APPROVED this 25<sup>th</sup> day of June, 2018.

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

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

APPROVED AS TO FORM:  
Claire Hervey Collins  
Lewis Brisbois Bisgaard & Smith LLP

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

***IRVINE RANCH WATER DISTRICT  
SCHEDULE OF RATES AND CHARGES***



**Irvine Ranch**  
**WATER DISTRICT**

***ADOPTED***

***JUNE 25, ~~2017~~2018***

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## Monthly Water Service Charge

## Customer Description

## Irvine Ranch

Residential detached, Condo attached/detached and apartments <sup>1</sup>	See chart (a)
Residential apartments and condominiums (master metered) <sup>1</sup>	See chart (a)
Commercial, Industrial, Public Authority and Landscape	See chart (a)
Landscape recycled <del>user</del>	See chart (a)
Temporary construction meters*	See chart (b)

Meter Size	Flow Range In GPM <sup>2</sup>	Chart (a)	Chart (b)
5/8" by 3/4" Disc	1/2-20	\$10.35 \$10.30	\$81.90 \$81.50
3/4" Disc	3/4-30	\$15.55 \$15.45	
1" Disc	3-50	\$25.90 \$26.75	\$116.05 \$116.49
1 1/2" Disc	2-100	\$51.75 \$51.50	\$117.20 \$116.63
2" Disc	2.5-160	\$82.80 \$82.40	\$146.40 \$145.67
3" Compound	161-280	\$165.60 \$164.80	\$218.95 \$217.88
4" Compound	361-450	\$310.50 \$309.00	\$421.15 \$419.40
6" Compound	451-750	\$517.50 \$515.00	\$581.30 \$578.47
8" Compound	1001-1450	\$996.25 \$994.40	\$908.20 \$903.78
10" Compound	1451-1600	\$1,138.55 \$1,133.00	\$1,195.10 \$1,189.25
14" Compound	2001-3500	\$1,811.35 \$1,802.50	\$1,804.15 \$1,795.35
2" Turbo	1-250	\$108.70 \$108.15	\$170.85 \$170.01
3" Turbo	2.5-650	\$248.40 \$247.20	\$310.00 \$308.54
4" Turbo	2-1250	\$517.50 \$515.00	\$560.60 \$557.89
6" Turbo	2.5-2500	\$1,035.05 \$1,030.00	\$1,083.80 \$1,078.52
8" Turbo	4-4700	\$1,811.35 \$1,802.50	\$1,869.45 \$1,860.34
10" Turbo	5-7000	\$2,173.60 \$2,163.00	\$2,240.55 \$2,229.60
2" Magnetic Meter	161-280	\$160.95 \$160.15	\$212.70 \$211.66
4" Magnetic Meter	751-1000	\$643.30 \$640.15	\$696.80 \$693.41
6" Magnetic Meter	1601-2000	\$1,447.50 \$1,440.45	\$1,515.70 \$1,508.29
8" Magnetic Meter	2001-3500	\$2,574.15 \$2,561.60	\$2,656.70 \$2,643.74
6" Propeller	1001-1450	\$698.65 \$695.25	
8" Propeller	1451-1600	\$931.55 \$927.00	
10" Propeller	1601-2000	\$1,242.05 \$1,236.00	
12" or 14" Propeller	2001-3500	\$1,746.65 \$1,738.15	
16", 18", or 20" Propeller	3501-5500	\$2,949.90 \$2,935.50	
4" Omni F2**	0.75-1000	\$643.30 \$640.15	
6" Omni F2**	1.5-2000	\$1,447.50 \$1,440.45	
8" Omni F2**	2.5-3500	\$2,574.15 \$2,561.60	
10" Omni F**	3.5-5500	\$2,949.90 \$2,935.50	
*Construction Meters (see chart b)			
**Fire Line Meters Only			

<sup>1</sup> Potable residential and landscape customers that have 12 calendar months of billing history and stay within the low volume tier for 9 of those 12 months will receive a \$2.00 leaseback credit on the water service charge.

<sup>2</sup> GPM is Gallons per Minute.

## Service Charges – Private Fire Protection Service

### 1. Service ~~IL~~Line ~~c~~Charge

FIRELINE CHARGES BY SERVICE AREA	
Rate Area <del>Service</del>	Monthly <del>Service</del> Charge
All <del>Others</del> Firelines	\$13.60/per diameter inch

### 2. Fire ~~h~~Hydrant ~~c~~Charge

The monthly charge for private fire hydrant service ~~shall be is~~ \$23.70 per hydrant. This charge includes water used for fire extinguishing purposes.

### 3. Fire Flow Testing

The District will charge ~~a one-time fee of~~ \$250.00 to administer ~~any~~ fire flow tests.



## Commodity Charges: Potable Water

IRWD establishes a water budget for each customer. The rates billed are based on use as a percentage of budget. Water budgets are based on an assumed number of residents, landscape square footage and actual daily weather and evapotranspiration (ET) data for each of three microclimates within the District. Customers may apply for budget variances for larger than normal landscaped areas, more people living in the home or special medical needs. The budget process is described in detail in Budgets and Variances on page 10 and residential customers can apply for a variance at <https://www.irwd.com/services/request-a-water-variance>.

### Irvine Ranch Rate Area

#### 1. Commodity **Charge** for **rResidential dDetached dDwelling uUnits**

Tier	Rate/ccf <sup>3</sup>	Percent of Allocation Budget
Low Volume	<del>\$1.40</del> - <del>\$1.36</del>	0-40
Base Rate	<del>\$1.89</del> - <del>\$1.70</del>	41-100
Inefficient	<del>\$4.73</del> - <del>\$4.09</del>	101-140
Wasteful	<del>\$13.35</del> - <del>\$12.06</del>	141+

#### 2. Commodity **cCharge** for **rResidential cCondo aAttached/dDetached dDwelling uUnits**

Tier	Rate/ccf	Percent of Allocation Budget
Low Volume	<del>\$1.40</del> - <del>\$1.36</del>	0-40
Base Rate	<del>\$1.89</del> - <del>\$1.70</del>	41-100
Inefficient	<del>\$4.73</del> - <del>\$4.09</del>	101-140
Wasteful	<del>\$13.35</del> - <del>\$12.06</del>	141+

#### 3. Commodity **cCharge** for **aApartments**

(Base allocation budget x number of dwelling units)

Tier	Rate/ccf	Percent of Allocation Budget
Low Volume	<del>\$1.40</del> - <del>\$1.36</del>	0-50
Base Rate	<del>\$1.89</del> - <del>\$1.70</del>	51-100
Inefficient	<del>\$4.73</del> - <del>\$4.09</del>	101-120
Wasteful	<del>\$13.35</del> - <del>\$12.06</del>	121+

#### 4. Commodity **cCharge** for **cCommercial, iIndustrial, pPublic aAuthority and nNon-residential -mMixed uUsage**

Tier	Rate/ccf	Percent of Allocation Budget
Base Rate	<del>\$1.89</del> - <del>\$1.70</del>	0-100
Wasteful	<del>\$13.35</del> - <del>\$12.06</del>	101+

<sup>3</sup> Ccf is 100 cubic feet or 748 gallons.



**Irvine Ranch Rate Area (Continued)**

**5. Commodity cCharge for pPotable iLandscape iIrrigation**

<u>Tier</u>	<u>Rate/ccf</u>	<u>Percent of Allocation</u>
Low Volume	<del>\$1.40</del> <u>\$1.36</u>	0-40
Base Rate	<del>\$1.89</del> <u>\$1.70</u>	41-100
Inefficient	<del>\$4.73</del> <u>\$4.09</u>	101-160
Wasteful	<del>\$13.35</del> <u>\$12.06</u>	161+

**6. Commodity cCharge for pPotable aAgriculture**

Water supplied under this section shall be used only for the growing or raising, in conformity with recognized practices of husbandry, for the purposes of commerce, trade, or industry, of agricultural, or floricultural products, and produced (1) for human consumption or for the market, or (2) for the feeding of fowl or livestock produced for human consumption or for the market, such products to be grown or raised on parcels of land having an area of not less than five acres utilized exclusively ~~there for~~ for that purpose.

<u>AreaType</u>	<u>Rate/ccf</u>	<u>Per Acre Foot</u>
<del>Irvine Ranch Rate</del>	<del>\$2.362</del> <u>62</u>	<del>\$1,028.00</del> <u>141.27</u>
<u>AreaPotable Agriculture</u>		

## Commodity Charges: Untreated Water System

### 1. Commodity ~~c~~Charge

The commodity charge for non-potable water used for agricultural purposes shall be:

<u>Type</u> <u>Area</u>	<u>Rate/ccf</u>	<u>Per Acre Foot</u>
<u>Non-potable</u>	<u>\$1.40</u> <u>58</u>	<u>\$609.84</u> <u>688.25</u>

Non-potable water used for lake filler:

<u>Tier</u>	<u>Rate/ccf</u>	<u>Percent of Allocation</u> <u>Budget</u>
Low Volume	<u>\$1.13</u> - <u>\$1.01</u>	0-40
Base Rate	<u>\$1.47</u> - <u>\$1.36</u>	41-100
Inefficient	<u>\$3.11</u> - <u>\$2.33</u>	101-140
Wasteful	<u>\$6.44</u> - <u>\$5.08</u>	141+

### 2. Santiago ~~AA~~queduct ~~C~~ommission (SAC) ~~w~~Water

The commodity charge for non-potable SAC water used for agricultural and non-agricultural (landscape irrigation, commercial and grading) purposes shall be:

<u>Area</u> <u>Type</u>	<u>Rate/ccf</u>	<u>Per Acre Foot</u>
Agricultural	<u>\$1.75</u> - <u>\$1.66</u>	<u>\$723.10</u> - <u>762.30</u>
Non-Agricultural	<u>\$1.58</u> - <u>\$1.40</u>	<u>\$609.84</u> - <u>688.25</u>

### 3. Surcharge

The District reserves the right to impose, based upon relevant factors, a surcharge to the basic commodity rate for non-potable agricultural irrigation water.

### 34. Commodity ~~c~~Charge

The commodity charge for non-potable water used for landscape irrigation (other than SAC water):

<u>Tier</u>	<u>Rate/ccf</u>	<u>Percent of Allocation</u> <u>Budget</u>
Low Volume	<u>\$1.13</u> - <u>\$1.01</u>	0-40
Base Rate	<u>\$1.47</u> - <u>\$1.36</u>	41-100
Inefficient	<u>\$3.11</u> - <u>\$2.33</u>	101-140
Wasteful	<u>\$6.44</u> - <u>\$5.08</u>	141+

## Commodity Charges: Recycled Water System

### 1. Commodity cCharge for landscape irrigation

Tier	Rate/ccf	Percent of Allocation Budget
Low Volume	<del>\$1.13</del> - <del>\$1.04</del>	0-40
Base Rate	<del>\$1.47</del> - <del>\$1.36</del>	41-100
Inefficient	<del>\$3.11</del> - <del>\$2.33</del>	101-140
Wasteful	<del>\$6.44</del> - <del>\$5.08</del>	141+

### 2. Commodity cCharge for landscape irrigation rRecycled !Loan cCustomers

Tier	Rate/ccf	Percent of Allocation Budget
Low Volume	<del>\$1.40</del> - <del>\$1.36</del>	0-40
Base Rate	<del>\$1.89</del> - <del>\$1.70</del>	41-100
Inefficient	<del>\$4.73</del> - <del>\$4.09</del>	101-140
Wasteful	<del>\$13.35</del> - <del>\$12.06</del>	141+

### 3. Commodity cCharge for agricultural irrigation

Source	Rate/ccf	Per Acre Foot
Recycled	<del>\$1.40</del> <u>52</u>	<del>\$609.84</del> <u>662.11</u>

### 4. Commodity cCharge for cCommercial and !Industrial

Tier	Rate/ccf	Percent of Allocation Budget
Base Rate	<del>\$1.07</del> - <del>\$0.95</del>	0-100
Wasteful	<del>\$6.44</del> - <del>\$5.08</del>	101+

### 5. Commodity cCharge for cCommercial and !Industrial !Loan cCustomers

Tier	Rate/ccf	Percent of Allocation Budget
Base Rate	<del>\$1.89</del> - <del>\$1.70</del>	0-100
Wasteful	<del>\$13.35</del> - <del>\$12.06</del>	101+

## Allocation Budgets and Variances

### 1. Base Allocation Budgets for Commodity Charges

Monthly allocation budget includes a fixed component for indoor usage and a variable component based on evapotranspiration (ET) rate for landscape irrigation.

Account Type	Base Allocation Budget Number of Residents	Landscape Area (LA)	Base Allocation Budget Indoor	Base Allocation Budget Outdoor ET x LA x PF	Total Allocation Budget
Residential Detached	4	1300 sq. ft (0.03 acres)	# Residents x 50 gpd (IU)	ET x LA x 0.75	(Indoor x # days in bill service period) + Outdoor
Residential Condo Attached/ Detached*	3	435 sq. ft (0.01 acres)	# Residents x 50 gpd (IU)	ET x LA x 0.75	(Indoor x # days in bill service period) + Outdoor
Apartments*	2	N/A	# Residents x 50 gpd (IU)		Indoor x # days in bill service period
Potable Irrigation		Site specific based on irrigated acreage	N/A	ET x LA x 0.75	Outdoor based on bill service period
Recycled Irrigation		Site specific based on irrigated acreage	N/A	ET x Kc x 0.87	Outdoor based on bill service period
Commercial, Industrial, Institutional			Site specific, based on productivity, employees, water use efficiency practices etc.	Site specific, based on irrigation needs	Site specific, adjusted for # days in bill service period

\*For master-metered apartments and condominiums, the base allocation budget is multiplied by the number of dwelling units.

gpd - GPD = gallons per day

CCF = 100 cubic feet. 1 CCF = 1 billing unit = 748 gallons

ET = (evapotranspiration) – from IRWD weather stations located in coastal, central or foothill zones for cool season turf

GPD = gallons per day

IU = Internal Use – assumes 50 GPD per person

LA = irrigated landscape acreage.

PF = plant factor. Adjusts ET based on plant needs relative to cool season turf and irrigation system efficiency requirements. The plant factor for potable irrigation is 0.75. For recycled water the plant factor is 0.87.

### 2. Budget Variances from Ascending Tiered Rate Allocations

Water allocation budgets are based on the number of residents, landscape square footage and actual daily weather and evapotranspiration (ET) data for each of three microclimates within the District rate area. Variances are available for larger than normal landscaped areas, more people living in the home or special medical needs. Applications for variances may be obtained from the District website <https://www.irwd.com/services/request-a-water-variance> or from Customer Service at (949) 453-5300.

#### Procedure

See IRWD Rules and Regulations, Section 12.6

### 3. Grounds for Variance

Applicants must provide proof acceptable to the District will be required for each ground(s) of to support any variance request.

- a. **Number of people residing in a residential dwelling unit.**  
~~—Each additional person increases the base budget by 1.6 ccf/month which is (indoor usage factor IU x 0.8)~~
- b. **Landscape**  
 Increased ~~allocation budgets~~ shall be given for residential lot size beyond the standard base ~~allocation budget~~ lot ~~—size. It is the obligation of the customer to~~ Applicants must provide ~~provide acceptable documentation~~ to the District ~~acceptable documentation~~ of the actual irrigated landscape area served.
- c. **Medical nNeeds**
  - Approval is contingent upon medical documentation.
  - Increased ~~allocation budget~~ will be determined on a case by case basis and based on the type of medical need.
- d. **Licensed cCare fFacilities (in a residential dwelling unit)**
  - A current license from appropriate regulatory agency will be required.
  - A licensed 24-hour care facility will be ~~provided~~ ~~allocated~~ budget increases based on the ~~IU x 0.8 for each additional resident~~ additional people per dwelling unit formula at 1.6 ccf per month per additional person.
  - A licensed day care facility (not 24-hour) ~~will be provided~~ budget increases based on the ~~IU x 0.5 for each additional person~~ will be granted one ccf per additional person of the licensed 24-hour care facility.
  - Additional ~~allocation budget~~ for medical reasons will be determined on a case by case basis.
- e. **Fire cControl zZones**
  - Adjustments to ~~allocation budgets~~ will be determined by the District based upon relevant factors such as area, slope, planting material, etc.
- f. **Commercial/iIndustrial/pPublic aAuthority**
  - Adjustments to the base ~~allocation budget~~ will be determined on a case by case basis. Relevant factors will include expansion of productive capacity, existing conservation practices that can be shown to have reduced water usage, severe economic hardship, etc.
- g. **New aAccount eEstablishment vVariance**  
 Landscape ~~aAccounts -~~ ~~— billed at the base rate for the first six months and, beginning in the seventh month, the budget -~~ will be placed on the base rate based on irrigated acres for the first six months.  
  
 Commercial and ~~iIndustrial~~ ~~aAccounts -~~ ~~— will be billed at the base rate - on usage placed on the base rate for the first six months and, beginning in the seventh month, the budget will be based on unique business and site demands as determined by the District.~~

#### 4. Limitations

- a. An approved variance will become effective on the date the request for variance is submitted to the District, but must be submitted within thirty (30) days of receipt of the bill.
- b. Approvals are valid for a period specified by the District (one year or less), and must be resubmitted on or before the expiration date to remain in effect.

#### 5. Effect of iIncreased bAllocation budgets

##### a. Residential:

Approved variances will extend each tier of the residential structure by a percentage.

##### b. Non-rResidential:

Approved variances will extend each tier of the non-residential structure by a given percentage (or other method) determined on a case by case basis.

## Pumping Surcharges

### 1. Potable wWater pPumping sSurcharges

A surcharge will be added to the commodity rate of those users who reside at higher elevations and cause the District to incur additional pumping costs to supply their water. The surcharge is based upon prevailing energy costs.

Zone Name	Surcharge/ccf
Zone 1	\$0.21
Zone 2	\$0.35
Zone 3	<del>\$0.64</del> 0.65

### 2. Recycled wWater pPumping sSurcharges

A surcharge will be added to the commodity rate of those users who reside at higher elevations and cause the District to incur additional pumping costs to supply their water. The surcharge is based upon prevailing energy costs.

Zone Name	Surcharge/ccf
Zone A	\$0.21
Zone B	\$0.34
Zone C	\$0.47



## Temporary Water Service Connection

### 1. Monthly sService cCharge

See Chart b on page 4.

### 2. Commodity cCharge

Wherever feasible, recycled water shall be used for temporary construction uses. The Commodity Charge shall be as follows:

~~Irvine Ranch~~ — Potable \_\_\_\_\_ \$2,743.26 /ccf

Recycled — All rate areas \_\_\_\_\_ \$1,461.64 /ccf

### 3. Meter dDeposit

A deposit equal to the replacement cost of the construction meter shall be collected at the time of service application. ~~For FY 2017-18, this is estimated to be \$1,750.00.~~ The deposit will be applied to the closing bill and any remaining amount refunded to the customer. Lost meters will result in forfeiture of deposit.

<u>Size</u>	<u>Cost</u>
1", 1-1/2", 2" Disc	\$ <u>1,000.00</u>
3" Turbo	\$ <u>1,750.00</u>
4" Turbo	\$ <u>2,330.00</u>
6" Turbo	\$ <u>4,200.00</u>
8" Turbo	\$ <u>7,110.00</u>
10" Turbo	\$ <u>9,270.00</u>

### 4. Materials for rRepairing dDamaged cConstruction mMeters

	<u>Cost</u>
Eddy Valve (2")	\$ 200.00
Eddy Valve (3")	\$ 380.00
Meter, complete	\$ 1,012.00
Swivel Adapter	\$ 158.00
Register	\$ 113.00
Male Fitting	\$ 95.00
Female Attachment	\$ 158.00
Lock & Chain	\$ 30.00
Chain (per five-foot length)	\$ 11.00
Lock	\$ 15.00
Handle (main case)	\$ 323.00
Hydrant Collar	\$ 100.00
Rotor	\$ 94.00
Rotor Cap	\$ 27.00
Collar (with barrel lock)	\$ 106.00
Barrel Lock	\$ 6.00
Stores Clearing	40% of total parts billed
Labor & Overhead	\$ 120.00
Meter Body only	\$ 323.00
<u>Meters</u>	<u>At cost</u>

### 5. High-lines for redevelopment

A high-line is a temporary service connection installed by the District to an existing customer during system upgrades or repairs to the District's system. Whenever feasible, high-lines will be metered and the customers will be billed at their regular rate. The District will determine whether a high-line should be metered.

If a high-line is unmetered, the customer will be charged using a reasonable average daily consumption based on prior consumption or based on other reasonable calculations in the absence of historical data.



## **New Account Fees and Security Deposits for Water Service**

This section is applicable to all requests for new or transferred service.

### **1. Service establishment fee**

A fee of \$25.00 shall be collected to establish a new account for water and sewer service, or to transfer an existing account to a new location.

### **2. Residential service deposit**

For residential customers, a deposit of \$50.00 may be required until a one year payment history is established.

### **3. Non-Residential service deposit**

For non-residential customers, a deposit of \$100.00 is required until a one year payment history is established.

**Delinquency, Returned Check, and Service Restoration Charges, and Tampering and Penalties and Fines for Illegal Connections and Water Wasters**  
**Other Charges**

**1. Delinquency cChargecharges**

All bills and charges for water, sewer and recycled water service shall be due and payable upon presentation and shall become delinquent twenty-five (25) calendar days thereafter. If payment is not made within twenty-five (25) calendar days after presentation, a late charge will be levied upon the unpaid balance as follows:

For residential and non-residential accounts with an unpaid balance of \$10 or more, a one-time charge of 10% of the unpaid balance plus 1.5% interest will be assessed, and each month thereafter the unpaid balance will be subject to an interest charge of 1.5%.

**2. Non-sSufficient fFunds cChecks**

A \$20.00 service fee will be charged for each check returned from the bank for non-sufficient funds.

**3. Service rRestoration cChargecharges**

(a) When service is discontinued because of delinquency in payment of a water, sewer, or recycled water bill, the service shall not be restored until all delinquent charges, late charges and interest charges, and a trip charge as specified in ~~(b)(1) or (2)~~, below, have been paid.

~~(b) When service is discontinued for any reason, including violation of the Rules and Regulations, service shall not be restored until a trip charge as specified in (1) or (2) below has been paid.~~

- (1) **Trip cCharge dDuring nNormal wWorking hHours**: The trip charge applicable for work requested to be performed during normal working hours of the District will be \$70.00.
- (2) **Trip cCharge aAfter nNormal wWorking hHours**: The trip charge applicable for work requested to be performed after normal working hours of the District will be \$95.00.

**4. Tampering**

~~(a) If an applicant, owner, customer, contractor or landscaper person tampers with a District meter and/or District side angle stop and damages it, the District will bill customer shall pay the District for the cost of repairs, including but not limited to: parts, labor and equipment. In addition, the customer will be liable for any fines or penalties imposed under the District's Rules and Regulations.~~

**5.4. Illegal Connections, Penalties and Fines Fines and pPenalties for illegal cConnections and wWater wWasters**

~~The District will may impose civil liabilities in accordance with sSection 377 (is section 377 for residential only?) | 1c11 of th14 of the District's Rules and Regulationse water code as part of an administrative procedure.~~

## 2.1 Monthly Sewage Service Charges

Residential	
(a) Single Family and Multi-family Dwelling Units	
<u>AVERAGE MONTHLY WATER USE<sup>1, 2, 3, 4</sup></u>	<u>SEWAGE SERVICE CHARGE PER MONTH</u>
Over 1000 cubic feet ( > 10.0 ccf)	• 100% rate = \$ 25.75 per unit
501-1000 cubic feet (5.01-10.0 ccf)	• 90% rate = \$ 23.20 per unit
0-500 cubic feet (0.0-5.0 ccf)	• 75% rate = \$ 19.30 per unit
<p>(1) Monthly <u>sewage</u> service charge based upon average of the actual lowest three water meter readings during the twelve month period ending December 31. <u>Charges are based on a 30 day billing period.</u></p> <p>(2) To qualify for the reduced rates, a customer must have usage history for a full calendar year.</p> <p>(3) No credit will be granted for vacancies resulting from the normal turnover of occupants in an existing multiple dwelling unit. The _____ price structure contained herein includes considerations of average</p> <p>(4) A newly constructed multiple dwelling unit may be billed at the non-residential metered rate, with appropriate allowance for landscape irrigation, until the structure is <u>substantially-occupied-released for occupancy.</u></p>	
	<u>SEWAGE SERVICE CHARGE PER MONTH</u>
(b) Collection Service Charge (assumes 10.0 ccf)	\$ 8.40 per unit
(c) Treatment Service Charge (assumes 10.0 ccf)	\$ 14.80 per unit
Non-Residential (Commercial, Industrial, and Institutional)	
<p>Quantity charges are based on the <u>supposition-assumption</u> that <u>90-percent (90%)</u> of non-residential water consumption returns to the sewer. Because of landscape irrigation or consumptive usage, some non-residential users may discharge substantially less of their metered water into the <u>wastewater-sewer</u> system. Those users may, upon request to the District, be permitted to have the amount of water being discharged into the sewer determined by means acceptable to the District. Upon request by the user and at the sole discretion of the District, an alternate service charge may be applied.</p>	
<del>—(a) Shall apply to all commercial, industrial and institutional users whose consumption is equal to or less than an average of 10 ccf per month<sup>1</sup>. To qualify for the sewage service charge only, a customer usage history cannot be greater than 120 ccf in a full calendar year, based on actual meter readings. Usage exceeding 10.0 ccfs per month will pay a quantity charge.</del>	<u>SEWAGE SERVICE /QUANTITY/COMMODITY CHARGE PER MONTH</u> <u>SERVICE AND QUANTITY CHARGE PER MONTH</u> Service charge _____ \$ 25.75 • _____ Quantity charge greater than 10 ccf — \$ 2.74 /ccf
<p>(1) To qualify for this rate, a customer usage history, based upon actual water meter readings, cannot be greater than 120 ccf in a full calendar year.</p>	
<del>—(b) Shall apply to all commercial, industrial and institutional users whose consumption is in excess of 10 ccf per month.</del>	<u>SEWAGE SERVICE /QUANTITY/COMMODITY CHARGE PER MONTH</u>

Sewage service charge  
Quantity charge beyond 10.0 ccf  
Industrial Waste Charge if applicable

- Sewage Service charge ————— \$ 25.75
- Quantity ]
- Industrial Waste ]
- Charge ————— \$ ————— \$2.874/ccf
- \$0.134 /ccfeef •
- \$2.874/ccf

## 2.2 Non-Residential Sewage

This section shall be applicable to non-residential customers who discharge extra-strength sewage into the sewage collection system, or discharge or have the potential to discharge constituents subject to federal or state standards and local discharge limitations.

### 1. Alternative sService cCharges

At the sole discretion of the District, users may request the application of an Alternative Service Charge for use. The Alternative Service Charge shall be based on measured quantity and quality of water being discharged to the sewer from the user's facility by a means acceptable to the District. The Alternative Service Charge for use shall be computed by the following formula:

$$\text{Charge for use} = VR_v + BR_b + SR_s$$

Where V = Total volume of flow in hundred cubic feet.

B = Total discharge of biochemical oxygen demand (BOD) in pounds.

S = Total discharge of suspended solids (SS) in pounds

R<sub>v</sub> = \$ 1,570 per hundred cubic feet

R<sub>b</sub> = \$ 0.437 per pound of BOD

R<sub>s</sub> = \$ 0.381 per pound of SS

### 2. Fees for nNoncompliance with pPermit cConditions

#### a. Minor vViolation

Condition where the limitation is less than the violation and the violation is less than the technical review criterion.

Fee per violation - \$350

#### b. Significant nNoncompliance or sSignificant vViolation

Condition where the violation is greater than the technical review criterion or qualifies under the definition of significant noncompliance.

Fee per violation - \$550

#### c. Batch dDump or sSlug lLoad

Fee per violation - \$550

#### d. Probation oOrders

Enforcement Compliance Schedule Agreements and subsequent two year probation, and Regulatory Compliance Schedule Agreements.



Fee per violation - \$550

**e. Appeals to the Board of Directors**

Appeal fee - \$500

**3. Fats, oils, and grease (FOG) control programs fees**

—All terms and requirements for the Fats, Oils, and Grease (FOG) Control Program can be found in Section 7.13 of the District's Rules and Regulations for Water, Sewer, Recycled Water, and Natural Treatment System Service.

**a. FOG permit fees**

Food service establishments (FSE), and those FSE that are issued a conditional waiver (CW) by the District, shall pay the following FOG program permit fee:

FSE Monthly Permit Fee: \$7.33 per month  
CW Monthly Permit Fee: \$2.96 per month

These charges shall be incorporated in the monthly sewage service charges.

**b. Special services/fees**

**i. FOG plan check fees**

The following FOG plan check fees must be paid at the time FOG plans are submitted.

Food Service Establishments (FSE) and Conditional Waivers (CW)

<u>Initial Plan Check</u>	<u>\$350.12</u>
<u>+</u>	
<u>Permit Issuance and Initial Inspection</u>	<u>\$255.00</u>
	<u>Total = \$605.12</u>

Limited Food Prep (LFP)

<u>Initial Plan Check</u>	<u>\$350.12</u>
---------------------------	-----------------

For FSE, CW or LFP, all initial plan checks include the initial plan check and up to one revision. If more than one revision is required, the FSE, CW or LFP will be required to pay additional plan check fees in the amount of \$301.92. This subsequent plan check fee includes up to two (2) more revisions.

**ii. Compliance follow-up inspection fee**

If during an inspection the FSE is deemed to be out of compliance with the FOG Control Program and a compliance follow-up inspection is required, the FSE shall be required to pay \$115.00 for the compliance follow-up inspection.

**iii. Enforcement fees**

If an FSE is deemed to be out of compliance and a Notice of Violation is issued by the District to the FSE, the FSE will be charged an enforcement fee in the amount of \$1,203.79 per incident.

**iv. Special study fee**

These special-study-fee is for the District to review special studies at the request of the FSE, such as a performance study of bio-additives to a grease interceptor. The special study fee in the amount of \$610.02 will be required at the time of request by the FSE to the District.

**v. FOG-related private lateral sewage discharge response fee**

If District staff responds to a private lateral sewage discharge (PLSD) that after investigation by District staff is found to be FOG-related, the following fees shall be charged to the FSE, CW or LFP:

PLSD Response Fees During Working Hours

First Response Hour -	\$932.57
Each Additional Response Hour -	\$484.72 per hour

PLSD Response Fees After Working Hours

First Response Hour -	\$1,160.62
Each Additional Response Hour -	\$712.77 per hour

**FOG Binder:**

The FOG Program Binder must be available during an inspection. Failure to locate the binder during an inspection, whether misplaced or lost, will trigger the issuance of a new FOG Binder. The \$50.00 replacement cost will be billed to the Food Service Establishment (FSE) at the time of replacement.

— **Permitting Fees:**

A FOG Wastewater Discharge Permit of two-year duration is \$200.00.

— **Service Call and Follow Up Inspection Fees:**

The General Non-Compliance Fee for District follow-up activities due to permit, ordinance, or regulatory non-compliance is \$100.00 per event.

— **Significant Non-Compliance Fees:**

A condition where the violation continues after 45 days of notification to the FSE. The fee is \$550.00 per violation and \$550.00 every 45 days thereafter.

**4. Special Purpose Discharger Service Charges**

Special Purpose Discharge Service Fees applies to shall be applicable to those customers who have been required by the District to obtain a Special Purpose Discharge Permit issued jointly by the District and Orange County Sanitation District (OCSD). Sewage service charges will be based on reported and verified monthly flow to sewer.

Flow Service Charge: up to \$1,471.56 per Million Gallons

**5. Discharge Limits**

Discharge limits are included in Exhibit Construct of the Rules and Regulations. The limits in this table are local limits. Customers subject to federal categorical pretreatment standards may be required to meet more stringent limits.

Constituent	Concentration Limit in mg/L
Arsenic	2.00
Cadmium	1.00
Chromium	2.00
Copper	3.00
Lead	2.00
Mercury	0.03
Nickel	10.00
Silver	5.00
Zinc	10.00
Cyanide (Total)	5.00
Cyanide (Amenable)	1.00
Polychlorinated Biphenyls	0.01
Pesticides	0.01
Total Toxic Organics	0.58

Sulfide (Total)	5.00
Sulfide (Dissolved)	0.50
Oil and grease of mineral or petroleum origin	100.00



## Water Connection Fees

## Residential

	IMPROVEMENT DISTRICT	0-5.8 DU\$/acre	5.9-10.8 DU\$/acre	10.9-25.8 DU\$/acre	25.9+ DU\$/acre
Connection Fees Per Dwelling Unit	111*	\$3,796	\$3,348	\$2,837	\$2,395
	112	\$1,423	\$1,423	\$1,423	\$1,423
	112a (tax exempt)	\$2,619	\$2,619	\$2,619	\$2,619
	113	\$2,959	\$2,959	\$2,959	\$2,959
Development shall be gross	125	\$2,708	\$2,708	\$2,708	\$2,708
acres excluding private parks.	153	\$1,989	\$1,989	\$1,989	\$1,989
	153 PA 30	\$3,716	\$3,716	\$3,716	\$3,716
	185	\$1,697	\$1,697	\$1,697	\$1,697
	188	\$1,527	\$1,527	\$1,527	\$1,527
	*All others				

## Commercial, Industrial and Public Authority – Office Building

	IMPROVEMENT DISTRICT	Commercial	Industrial	Public Authority
Connection Fees Per Gross Acre	111*	\$21,062	\$32,080	\$21,062
	112	\$ 9,251	\$ 9,251	\$ 9,251
	112a (tax exempt)	\$17,022	\$17,022	\$17,022
	113	\$21,610	\$0	\$21,610
	125	\$13,431	\$19,066	\$13,431
	153	\$10,450	\$14,834	\$10,450
	PA 30	\$18,440	\$26,176	\$18,440
	185	\$ 7,928	\$ 7,928	\$ 7,928
	188	\$ 6,025	\$ 6,025	\$ 6,025
	*All others			

## Parks, Churches and Commercial Recreational Facilities

	IMPROVEMENT DISTRICT	Indoor Water Use	Outdoor <sup>(1)</sup> Water Use
Connection Fees Per Fixture Unit	111*	\$65.96	\$232.13
	125	\$44.64	\$156.46
(1) Calculated per Uniform Plumbing Code	153	\$34.78	\$121.89
	PA 30	\$61.33	\$214.96
	185	\$45.62	\$160.18
	188	\$30.10	\$105.91
	*All others		

## Schools (Public and Private)

	IMPROVEMENT DISTRICT	Indoor Primary &/or Intermediate	Secondary	Landscape Primary Intermediate & Secondary
Connection Fees Per 100 Students	111*	\$5,198	\$6,971	\$223
	125	\$3,511	\$4,714	\$157
Based on Max Daily Attendance	153	\$2,735	\$3,672	\$122
	PA 30	\$4,823	\$6,476	\$216
	185	\$3,439	\$4,824	\$155
	188	\$2,753	\$3,684	\$118
	*All others			

**High Volume User – Commercial and Industrial Commercial, Industrial and Public Authority**

This section shall apply to all non-residential applicants in addition to standard connection fees in all improvement districts.

Connection Fee Formula                      Additional High Volume Water User Connection Fee =  

$$\frac{[\text{Est. Gallons per Day use} - (\text{no. acres} \times \text{use factor})] \times \$1,186,270/\text{cfs}}{646,320 \text{ gal/day/cfs}}$$

*Non-Residential Water Use Factor	<u>Land Use Category</u>	<u>Water Use Factors (Gal/Acre x /Day)</u>
	Commercial	2,000.00
	Industrial	4,000.00
	UCI	Special Contract

Definitions                      Commercial: Commercial development includes but is not limited to the following uses: Hotels, retail and offices.  
Industrial: Industrial development includes but is not limited to the following uses: Manufacturing, research and development, and distribution.

**Methodology for Calculating Redevelopment Connection Fees**

Redevelopment connection fees will be calculated using the following methodology, effective January 1, 2014:

1. Calculate water and sewer connection fee based on redevelopment plans utilizing current rates and charges;
2. Provide a credit based on the existing project (to be redeveloped) by calculating a connection fee using current rates and charges; and
3. The redevelopment connection fee calculation is the difference between the new development connection fee and the connection fee credit. No refunds will be given if the credit is greater than connection fee.

**Service Installations by District**

Customers may request the District to install, relocate or abandon domestic water, recycled water and fire protection service lines. To request an action listed above, the customer must submit a Quote Request Form for Service or Meter Modifications which can be obtained by contacting Development Services. District staff will prepare a cost estimate for the requestor. When payment is received, a work order will be issued to District staff to begin coordination and installation.

The District reserves the right to decline a customer’s request for service installations by District for any reason. In the event the District declines to perform service installations, the requester will need to submit design plans for review and approval through Development Services. For further information, see Development Services Procedural Guidelines and General Design Requirements document which can be found at [www.inwd.com](http://www.inwd.com).

**Meter Installations by District**

Customers may request the District to install or replace (downsize or upsize) domestic water or recycled water meters. To request an action listed above, the customer must submit a Quote Request Form for Service or Meter Modifications which can be obtained by contacting the District’s Development Services. District staff will prepare a cost estimate for the requestor. When payment is received, a work order will be issued to District staff to begin coordination and installation. Meter installation and replacement charges are as follows:

<u>Meter size</u>	<u>Cost*</u>	<u>Meter size</u>	<u>Cost*</u>
5/8" x 3/4" **	\$130.00**	2" Disc	\$ 750.00
3/4"	\$200.00	2" Turbo	\$1,300.00
1"	\$250.00***	3" Turbo	\$2,100.00
1-1/2"	\$450.00	4" Turbo	\$3,400.00

\* Prices shown are for standard meter installations only and do not include services, angle stops, meter boxes, meter box covers, vaults or meter box lids. Additional costs may apply. The customer will be responsible for any plumbing modifications downstream of the water meter.

\*\* Developer installed-Residential only.

\*\*\* When a customer requests a meter to be upsized from 5/8" x 3/4" to 1", additional parts and labor will be required to make the conversion. The cost for District staff to perform this work is \$2,000.00 and will be collected along with the above 1" meter cost.

Costs for meters larger than 4-inches will be determined by the District's Purchasing Department at the time of request. Meters costs includes strainer.

### Upsizing and Downsizing Meter Requests

1. It is the customer's responsibility to ensure that any upsizing or downsizing of the meter will not have any adverse effects to the customer's system as it relates to water pressure, fire protection or ability to successfully serve the demand of the home or business. The District may require OCFA approval of any modifications and/or a signed Request & Authorization to Change Meter Size form.
2. Any private-side (downstream of the water meter) modifications or repairs are the sole responsibility of the customer.
3. If for any reason the customer chooses to change back to the original size meter, all installation costs would once again apply.

A Quote Request Form for Service or Meter Modifications can be obtained at the District's Development Services Counter.

### Domestic Water, Recycled Water and Natural Treatment System (NTS) Plan Check and Inspection Fees

Plan check and inspection fees for water systems shall be calculated as 10% of the bondable cost for the off-site, public, potable or recycled water system or a fixed fee as described below.: Residential or Natural Treatment Systems plans require a non-refundable deposit of 5% of the estimated cost. Non-residential plans require a nonrefundable \$100 deposit. The deposit shall be submitted when submitting for first plan check. Any remaining fees shall be paid prior to final approval of the plans

1. Installation of a 1" or 2" service	_____	\$400.00
2. Removal of a 1" or 2" service	_____	\$400.00
3. Installation of Fire DDCA or fire hydrants	_____	\$1000.00
4. Installation of recycled water hydrants or temporary construction connections	_____	
		-\$1000.00

The overtime inspection rate is \$175.00/hr.

### Interim Water Service Charge – New Developments

Builders and developers will be charged A one-time charge of \$35.10 per connection in a new tract and/or development will be made to builders and developers for unmetered water service available for testing of the plumbing and sewer only the period of time after in-tract lines have been connected to the District's water system until the new customer begins metered water service. Any other unmetered water use is not permitted by the District, that period of time after in-tract lines-Connection method and appropriate use of water is at the sole discretion of the District. have been connected to the District's water system until the new customer begins metered water service. Examples of unpermitted connections use and uses may include but are not limited to: grading operations, /pad and or compaction plumbing connections to sales/construction trailers or any construction practice that could pose risk to public health resulting from a backflow condition.

Unmetered water service is not permitted for custom lots. Developers for custom lots will be required to apply for a domestic water construction meter prior to starting construction.

**Fines and Penalties for Water Waste and Theft**

The District will impose civil liabilities in accordance with section 377 of the water code as part of an administrative procedure.[C12]

## Sewer Connection Fees

### Residential

	IMPROVEMENT DISTRICT	0-5.8 DUs/acre	5.9-10.8 Dus/acre	10.9-25.8 Dus/acre	25.9+ Dus/acre
Connection Fees Per Dwelling Unit	1 (2222)*	\$6,740	\$5,998	\$4,937	\$3,895
	212	\$3,715	\$3,715	\$3,715	\$3,715
	212a (tax exempt)	\$6,836	\$6,836	\$6,836	\$6,836
	213	\$5,176	\$5,176	\$5,176	\$5,176
Total acreage for any given development shall be gross acres excluding private parks.	240	\$3,719	\$3,719	\$3,719	\$3,719
	225	\$2,924	\$2,924	\$2,924	\$2,924
	253	\$2,312	\$2,312	\$2,312	\$2,312
Parks.	253 PA 30	\$3,878	\$3,878	\$3,878	\$3,878
	256	\$5,900	\$5,900	\$5,900	\$5,900
	285	\$3,029	\$3,029	\$3,029	\$3,029
	288	\$2,617	\$2,617	\$2,617	\$2,617
	OPA1 (Ridgeline)	\$5,900	\$5,900	\$5,900	\$5,900
	*All others				

### Commercial, Industrial and Public Authority—Office Building

	IMPROVEMENT DISTRICT	Commercial	Industrial	Public Authority
Connection Fees Per Gross Acre	1 (222)*	\$37,773	\$65,903	\$37,773
	212	\$22,180	\$22,180	\$22,180
	212a (tax exempt)	\$40,814	\$40,814	\$40,814
	213	\$30,839	\$0	\$30,839
	240	\$16,981	\$0	\$16,981
	225	\$14,297	\$16,913	\$14,297
	253	\$10,608	\$17,603	\$10,608
	253 PA 30	\$17,293	\$28,695	\$17,293
	285	\$ 6,053	\$ 6,053	\$ 6,053
	288	\$10,330	\$10,330	\$10,330
	*All others			

### Parks, Churches and Commercial Recreational Facilities

	IMPROVEMENT DISTRICT	Fee
Connection Fees Per Fixture Unit	1 (222)*	\$417.92
	240	\$252.63
	225	\$224.08
	253	\$166.26
	253 PA 30	\$271.03
	288	\$ 68.55
	*All others	

### Schools (Public and Private)

	IMPROVEMENT DISTRICT	Primary & Intermediate	Secondary
Connection Fees Per 100 Students Based on Max Daily Attendance	1 (222)*	\$19,803	\$26,407
	240	\$11,940	\$15,923
	225	\$10,528	\$14,038
	253	\$ 7,811	\$10,415
	253 PA 30	\$12,734	\$16,979
	288	\$ 3,300	\$ 4,397
	*All others		

### Sewer Lateral Installations by District

The District does not install sewer laterals.

**Irvine Business Complex (IBC) – nNon-rResidential**

	<u>Commercial/Industrial</u>		
	(1)	(2)	(3)
	<u>Low Demand</u>	<u>Average Demand</u>	<u>High Demand</u>
Connection Fees Per 1,000 Square Feet	\$260	\$1,606	\$3,807

- (1) Low Demand connections are the following categories of users: Nurseries, Warehouses, Parking Structures, RV Storage, Churches, Truck Terminals, RV Parks, Lumber/Construction Yards, and other discharge whose flow is similar in volume to these listed categories.
- (2) Average Demand connections other than listed in Low or High Demand categories.
- (3) High Demand connections are the following categories of users: Restaurants, Supermarkets, Car Washes, Coin Laundries, Amusement Parks, Shopping Centers with Restaurants, Food Processing Facilities, Textile Manufacturers, and other discharges whose flow is similar in volume to these listed categories.

**High vVolume uUser – cCommercial and iIndustrial and pPublic aAuthority**

This section shall apply to all non-residential applicants in addition to standard connection fees in all improvement districts.

Connection Fee Formula                      Additional High Volume Sewer User Connection Fee =

\* Sewer GPD = 90% of water GPD                      [Est. GPD use \* – (no. acres x use factor\*\*)] x \$17.24/Gal. of Sewer Flow

**Non-Residential Sewage Flow Generators (Use Factors)	<u>Land Use Category</u>	<u>Average Flows</u>
	Commercial	1,300.00
	Industrial	2,600.00
	UCI	Special Contract

Definitions

Commercial: Commercial development includes but is not limited to the following uses: Hotels, retail and offices.

Industrial: Industrial development includes but is not limited to the following uses: Manufacturing, research and development, and distribution.

~~Commercial: Commercial development includes but is not limited to retail and offices~~

~~Industrial: Industrial development including manufacturing, research and development and distributorships~~

**Methodology for cCalculating rRedevelopment cConnection fFees**

Redevelopment connection fees will be calculated using the following methodology, effective January 1, 2014:

1. Calculate water and sewer connection fee based on redevelopment plans utilizing current rates and charges;
2. Provide a credit based on the existing project (to be redeveloped) by calculating a connection fee using current rates and charges; and
3. The redevelopment connection fee calculation is the difference between the new development connection fee and the connection fee credit. No refunds will be given if the credit is greater than connection fee.



### Sanitary ~~s~~Sewer ~~p~~Plan ~~c~~Check and ~~i~~Inspection ~~f~~Fees

The plan check and inspection fee for public sewer systems will be calculated as 10% of the bondable cost. A non-refundable deposit of 5% of the estimated cost of the sewer system is required with the submittal of the first plan check. Any remaining fees shall be paid prior to final approval of the plans. The overtime inspection rate is \$175.00.

### District ~~c~~Closed ~~c~~Circuit ~~t~~Television ~~i~~Inspection ~~c~~Charges Initial TV ~~i~~Inspection ~~f~~Fee

A fee of \$.760 per linear foot as measured from the center line of manholes will be charged for all 6-inch and larger sewer lines to be inspected by a closed circuit television camera. The District will furnish the special camera equipment and manpower to fulfill this inspection requirement. This fee is to be paid along with the other connection, meter, and inspection fees prior to the District signing developer's tract utility plans.

### Reinspection

— Fees will be assessed for Reinspection by District TV Crew after corrective work is completed. Those portions of the pipeline system that have been corrected must be retelevised.

~~1.~~ District fees for retelevising corrective work will be a flat set-up fee of two hundred fifty dollars

~~1.~~ — (\$250.00) plus \$0.760 per foot of sewer line reinspected measured centerline to centerline of manholes.

2. Payment for retelevising estimated inspection fees must be received by the Development and Inspection Services prior to scheduling the reinspection. Retelevising will not be done until the fees are paid.

### Cancellation of District's TV ~~i~~Inspection

If it is determined by either the Contractor or Developer that the job site will not be ready or accessible for the television inspection on the scheduled date, as notified, the Contractor shall notify the District Inspection Division of the necessary cancellation at least 24 hours in advance of the scheduled inspection to avoid being charged a cancellation fee.

~~1.~~ If the District's television crew arrives at the job site and the work is not ready or accessible, the Contractor and owner will be billed for the cancellation fee of two hundred fifty dollars (\$250.00), payable to the District prior to the date of the rescheduled television inspection.

—

~~1.~~ —

2. A rescheduled inspection is to be made through the District's project inspection division.

### Optional ~~d~~Developer TV ~~i~~Inspection

If the Contractor or Owner desires to have a portion of, or the entire job, TV inspected for his convenience, he will be charged a fee of one hundred fifty dollars (\$150.00) plus \$.60.70 per foot of sewer line inspected measured centerline to centerline of manholes.

**Exhibit B: History of Revisions to Schedule of Rates and Charges**

DATE ADOPTED	RESOLUTION	REVISION	EFFECTIVE DATE
05-23-77	1977-49	Rescind 1973-48 & 1977-42	
08-29-77	1977-71	Change in Connection Charges	09-01-77
02-27-78	1978-31	Rescind 1977-71	
		Discontinue Water & Sewer Service	03-01-78
07-10-78	1978-135	Rescind 1978-31	07-10-78
08-28-78	1978-154	Rescind 1978-135	08-28-78
01-08-79	1979-02	Rescind 1978-154	
		Increase Connection Fees	08-28-78
		Increase Water Commodity Charges	01-08-79
06-25-79	1979-25	Rescind 1979-02	
		Increase Water & Sewer Charges	07-01-79
07-30-79	1979-41	Rescind 1979-25	07-30-79
06-23-80	1980-28	Rescind 1979-41	07-01-80
08-25-80	1980-49	Rescind 1980-28	08-25-80
12-22-80	1980-77	Rescind 1980-49	
		Increase Connection Fees	07-01-80
		Increase	07-01-80
		Increase Connection Fees	08-25-80
		Increase Wastewater System Charges	01-01-81
06-15-81	1981-103	Rescind 1980-77	07-13-81
07-13-81	1981-132	Rescind 1981-103	07-13-81
06-28-82	1982-48	Rescind 1981-132	
		Increase Connection Fees	07-01-82
		& Water & Sewer Rates	07-01-82
09-27-82	1982-61	Rescind 1982-48	10-01-82
11-22-82	1982-67	Rescind 1981-61	12-01-82
06-27-83	1983-116	Rescind 1982-67	07-01-83
11-21-83	1983-137	Rescind 1983-116	
		Increase	07-01-83
		Increase Dom. Water Rates & ImPLY. Mod. Sewer Rates	01-01-84
12-12-83	1983-132	Rescind 1983-131	
		High-rise Connection Fees (Sewer)	01-01-84
04-23-84	1984-13	Rescind 1983-132	
		Untreated & Recycled Water For Ag Use Commodity Charges Increase	06-01-84
06-25-84	1984-22	Rescind 1984-13	
		Decrease Water & Sewer Charges, Increase Connection Fees	07-01-84
09-10-84	1984-43	Rescind 1984-22	10-01-84
01-28-85	1985-2	Rescind 1984-43	02-01-85
02-25-85	1985-7	Rescind 1985-2	02-25-85
03-25-85	1985-31	Rescind 1985-7	03-25-85
		High Volume Connection Fee	02-25-85
		Reduce Connection Fees	03-25-85
		I.D. 103 & 3(203)	
06-24-85	1985-37	Rescind 1985-31	07-01-85
		Decrease Water & Sewer Chgs.	07-01-85
		Change Recycled Landscape Charge	07-01-85
12-16-85	1985-115	Rescind 1985-37	01-01-86
06-23-86	1986-28	Rescind 1985-115	07-01-86
03-23-87	1987-11	Rescind 1986-28	04-01-87
		Decrease Sewer Charges	01-01-86
		Decrease Sewer Charges	07-01-86
		High Volume Connection Fees	04-01-87

Continued



DATE ADOPTED	RESOLUTION	REVISION	EFFECTIVE DATE
06-22-87	1987-27	Rescind 1987-11	Increase R-W; Nonpotable Ag
08-10-87	1987-44	Rescind 1987-27	Reduce Connection Fees I.D.'s 103,3(203), 102(120)121 & 106(160)161
09-28-87	1987-49	Rescind 1987-44	Industrial Waste Program
01-25-88	1988-18	Rescind 1987-49	Add Portola Hills Sewer Serf. Add Water Pumping Surcharge
06-27-88	1988-61	Rescind 1988-18	Reduce Monthly Sewer Charge
08-22-88	1988-66	Rescind 1988-61	Adjust Connection Fees
06-26-89	1989-38	Rescind 1988-66	Reduce Monthly Sewer Charge Reduce Recycled Landscape Increase Untreated and Recycled Ag Rates
08-28-89	1989-58	Rescind 1989-38	Adjust Connection Fees
06-26-90	1990-20	Rescind 1989-58	Reduce Monthly Sewer Charge Reduce Untreated and Recycled Ag Rates
07-23-90	1990-24	Rescind 1990-20	Adjust Connection Fees
01-28-91	1991-05	Rescind 1990-24	Eliminate High Rise and Adjust Connection Fees
04-22-91	1991-09	Rescind 1991-05	Add Excessive Use Surcharge Ascending Block Rate Structure and Request for Variance
05-28-91	1991-13	Rescind 1991-9	Commodity Rates for Landscape Customers
06-10-91	1991-19	Rescind 1991-13	Commodity Rates for Ag., Untreated Landscape, Portola Hills Sewer Rates and Coastal Recycled Rates
07-12-91	1991-37	Rescind 1991-19	Adjust Connection Fees
10-28-81	1991-46	Rescind 1991-37	Increase Ag Water Rate
04-30-92	1992-12	Rescind 1991-46	Modify Ascending Block Rate Structure
06-22-92	1992-22	Rescind 1991-13	Modify Ascending Block Rate Structure
09-28-92	1992-40	Rescind 1992-22	Adjust Connection Fees
01-25-93	1993-3	Rescind 1992-40	Landscape Irrigation Rates
03-04-93	1993-8	Rescind 1993-3	Modify Ascending Block Rate Structure
06-28-93	1993-22	Rescind 1993-8	Increase Water Rate and Reduce Monthly Sewer Charge
07-28-93	1993-26	Rescind 1993-22	Decrease Water Rates
09-13-93	1993-29	Rescind 1993-26	Adjust Connection Fees

Continued

DATE ADOPTED	RESOLUTION	REVISION	EFFECTIVE DATE	
06-13-94	1994-10	Rescind 1993-29	Increase Water Rate	07-01-94
08-08-94	1994-18	Rescind 1993-10	Adjust Connection Fees	08-08-94
08-14-95	1995-20	Rescind 1994-18	Adjust Connection Fees	08-14-95
08-28-95	1995-24	Rescind 1995-20	Adjust Pumping Surcharges	10-01-95
09-25-95	1995-27	Rescind 1995-20	Adjust Connection Fees and	09-25-95
09-25-95	1995-27	Rescind 1995-24	Adjust Pumping Surcharges	11-01-95
10-23-95	1995-31	Rescind 1995-27	Adjust Pumping Surcharges	11-01-95
11-27-95	1995-35	Rescind 1995-31	Add Monthly Sewer Service Charge - Newport Coast	12-01-95
01-08-96	1996-3	Rescind 1995-35	Adjust Connection Fees to I.D. 240	01-08-96
06-10-96	1996-19	Rescind 1996-3	Adjust Pumping Surcharges Increase Nonpotable Water Charges and Modify Ascending Block Rate Allocations	07-01-96
08-12-96	1996-27	Rescind 1996-19	Adjust Connection Fees	08-12-96
08-27-96	1996-28	Rescind 1996-27	Adjust Connection Fees to I.D.'s 140 & 240	08-27-96
09-23-96	1996-32	Rescind 1996-28	Adjust Water and Sewer Fixed Charges	09-23-96
10-14-96	1996-33	Rescind 1996-32	Adjust Sewer Service Charges for Non- Residential & Portola Hills	10-14-96
06-30-97	1997-17	Rescind 1996-33	Modify Rates and Charges and Connection Fees	06-30-97
10-01-97	1997-29	Rescind 1997-17	Modify Ascending Block Rate Structure Terminology	10-01-97
06-08-98	1998-21	Rescind 1997-29	Miscellaneous Adjustments to Schedule of Rates and Charges	07-01-98
08-24-98	1998-33	Rescind 1998-21	Adjust Connection Fees	08-24-98
06-28-99	1999-25	Rescind 1998-33	Adjustments to Schedule of Rates and Charges	07-01-99
06-26-00	2000-18	Rescind 1999-25	Adjustments to Schedule of Rates and Charges	07-01-00
07-24-00	2000-24	Rescind 2000-18	Adjustments to Schedule of Rates and Charges	07-25-00
06-25-01	2001-24	Rescind 2000-24	Adjustments to Schedule of Rates and Charges	07-01-01
06-24-02	2002-22	Rescind 2001-24	Adjustments to Schedule of Rates and Charges	07-01-02
12-09-02	2002-47	Rescind 2002-22	Adjustments to Schedule of Rates and Charges	12-09-02
03-10-03	2003-7	Rescind 2002-47	Adjustments to Schedule of Rates and Charges	03-10-03
06-23-03	2003-20	Rescind 2003-7	Adjustments to Schedule of Rates and Charges	07-01-03
09-08-03	2003-35	Rescind 2003-20	Adjustments to Schedule of Rates and Charges	09-08-03
06-28-04	2004-25	Rescind 2003-35	Adjustments to Schedule of Rates and Charges	07-01-04
07-12-04	2004-32	Rescind 2004-25	Adjustments to Schedule of Rates and Charges	07-12-04
10-11-04	2004-51	Rescind 2004-32	Adjustments to Schedule of Rates and Charges	10-11-04
06-27-05	2005-20	Rescind 2004-51	Adjustments to Schedule of Rates and Charges	07-01-05

DATE ADOPTED	RESOLUTION	REVISION	EFFECTIVE DATE	
09-26-05	2005-31	Rescind 2005-20	Adjustments to Schedule of Rates and Charges	10-10-05
10-10-05	2005-35	Rescind 2005-31	Adjustments to Schedule of Rates and Charges	10-10-05
06-26-06	2006-20	Rescind 2005-35	Adjustments to Schedule of Rates and Charges	06-27-06
07-24-06	2006-27	Rescind 2006-20	Changes to Water & Sewer Connection Fees	07-24-06
06-25-07	2007-16	Partially Modifies 2006-27	Adjustments to Schedule of Rates and Charges	06-26-07
07-16-07	2007-21	Partially Modifies 2006-27	Changes to Water & Sewer Connection Fees	07-17-07
06-23-08	2008-36	Rescind 2007-21	Adjustments to Schedule of Rates and Charges	07-01-08
07-28-08	2008-45	Partially Modifies 2008-36	Changes to Water & Sewer Connection Fees	07-29-08
06-22-09	2009-20		Adjustments to Schedule of Rates and Charges	06-23-09
07/27/09	2009-24	Partially Modifies 2009-20	Changes to Water & Sewer Connection Fees	07/28/09
06/28/10	2010-19		Adjustments to Schedule of Rates and Charges	07/01/10
07/26/10	2010-22	Partially Modifies 2010-19	Changes to Water & Sewer Connection Fees	07/27/10
02/28/11	2011-3	Partially Modifies 2010-22	Changes to Sewer Connection Fees	03/01/11
06/27/11	2011-25	Rescind 2010-19	Adjustments to Schedule of Rates and Charges	07/01/11
07/25/11	2011-33	Rescind 2011-25	Changes to Water & Sewer Connection Fees	07/26/11
06/25/12	2012-26	Rescind 2011-25	Adjustments to Schedule of Rates and Charges	07/01/12
10/08/12	2012-41	Partially Modifies 2012-26	Changes to Water & Sewer Connection Fees	10/09/12
12/10/12	2012-57		Adjust Connection Fees to IDs 112 & 212	12/11/12
06/24/13	2013-21	Rescind 2012-26	Adjustments to Schedule of Rates and Charges	07/01/13
12/16/13	2013-60	Partially Modifies 2013-21	Changes to Water & Sewer Connection Fees	01/01/14
06/23/14	2014-32		Adjustments to Schedule of Rates and Charges	07/01/14
07/14/14	2014-33	Partially Modifies 2014-32	Changes to Water & Sewer Connection Fees	07/15/14
11/10/14	2014-50		Changes to the Rules and Regulations for Water, Sewer, Recycled Water, and Natural Treatment System Service	11/11/14
06/22/15	2015-17	Rescind 2014-50	Adjustments to Schedule of Rates And Charges	07/01/15
07/27/15	2015-19	Partially Modifies	Changes to Water & Sewer Connection Fees	07/28/15
06/27/16	2016-10		Adjustments to Schedule of Rates and Charges	07/01/16
07/25/2016	2016-21	Partially Modifies	Changes to Water & Sewer Connection Fees	07/26/2016

<u>DATE ADOPTED</u>	<u>RESOLUTION</u>	<u>REVISION</u>	<u>EFFECTIVE DATE</u>
06/26/2017	2017-167		07/01/2017
07/24/2017	2017-19	Partially Modifies	09/01/2017
			Adjustments to Schedule of Rates and Charges
			Changes to Water & Sewer Connection Fees

Exhibit "C"

Scott Mather  
23 Del Mar  
Newport Coast, CA 92657

May 5, 2018

IRWD  
P.O. Box 5149  
Irvine, CA 92616

RECEIVED  
MAY 16 2018  
FINANCE  
IRVINE RANCH WATER DISTRICT

Dear IRWD,

The proposed increase may be needed from a macro/overall cost perspective. But it is unfair to increase the Proposed Potable Non-Agricultural tariff to \$13.35. It is not "wasteful" when a family of 6 needs to have water in this rate category.

What is "wasteful" is subsidizing the Agricultural Potable water which is proposed to only go to \$2.62 a unit! It is "wasteful" to grow things in the desert that should be grown elsewhere based on simple economics!

Why should residential customers with large families subsidize wasteful agricultural use? This is nonsense.

You should lower the rate which is already too high at \$12.09 to something that is more fair. A small premium to agricultural use may make sense. But this rate is already usurious and inequitable.

Regards,



Scott Mather

23 Del Mar  
Newport Coast, CA 92657

May 23, 2018

IRWD  
P.O. Box 5149  
Irvine, CA 92616

Re: Protest Letter

Name: Theresa Koehler

Address for service: 17 Waldorf, Irvine, CA 92612

Statement of protest: I, Theresa Koehler, at 17 Waldorf, Irvine, CA 92612 am submitting my protest for the proposed residential rate increases.

Sincerely,



Theresa Koehler


RECEIVED

JUN 04 2018

FINANCE  
IRVINE RANCH WATER DISTRICT

IRVINE RANCH WATER DISTRICT,

I WOULD LIKE TO PROTEST THE PROPOSED WATER &  
SEWER RATE CHANGE. I AM THE HOMEOWNER / CUSTOMER  
AT 73 PASSAGE, IRVINE CA 92603.

  
DIANA SHENG.


RECEIVED

JUN 21 2018

FINANCE  
IRVINE RANCH WATER DISTRICT



## Exhibit "D"



Board Workshop  
Operating Budget and Rate Proposal  
FY 2018-19

Board Meeting  
June 25, 2018



### Schedule for Budget & Rate Adoption

#### FY 2018-19 Operating Budget and Rates

March 8	F&P Committee: Preliminary Budget Review
March 19	Special F&P Committee: Detailed Budget Review
April 3	F&P Committee: Budget Update, Impact on Rates
April 9	First Board Workshop
April 23	Second Board Workshop: Adoption of Budget and approval of Proposition 218 Notices
May 4	Proposition 218 Notices mailed
June 25	Adopt FY 2018-19 Rates & Charges

Irvine Ranch Water District 2

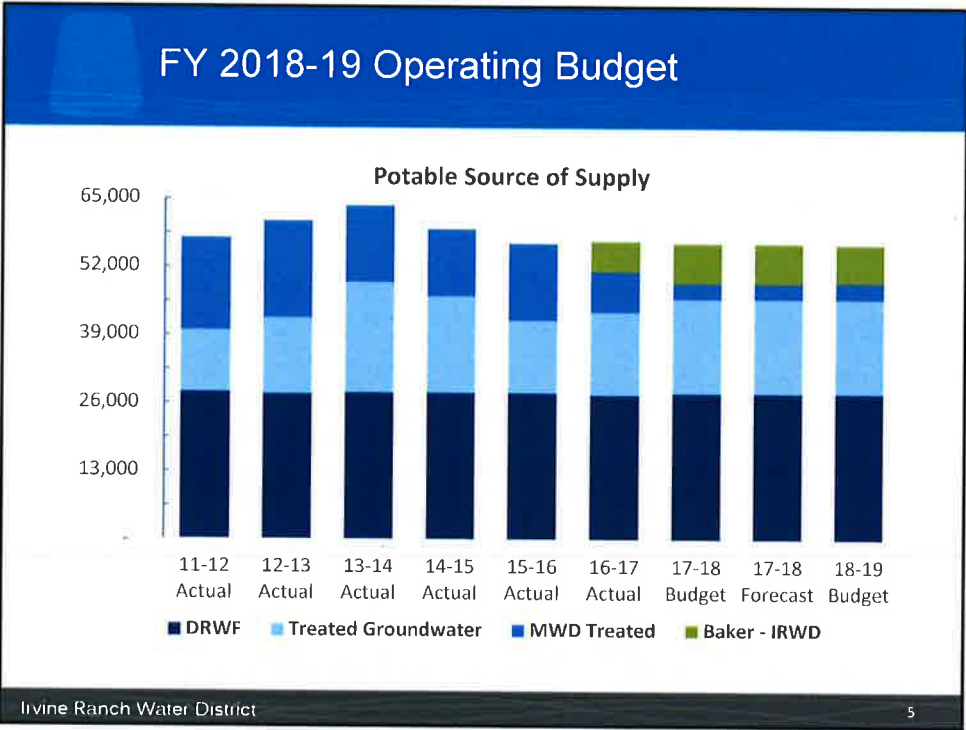
## OPERATING BUDGET



### FY 2018-19 Operating Budget

*Comparison of key drivers with prior year budget (in millions):*

Consolidated Budget	Adopted FY 17-18	Proposed FY 18-19	Increase / (Decrease)	%
Salaries and Benefits	\$53.7	\$58.1	\$4.4	8.1%
Purchased Water	\$35.3	\$37.4	\$2.1	5.9%
Repairs and Maintenance	\$23.5	\$24.0	\$0.5	2.1%
Electricity	\$14.6	\$14.5	(\$0.1)	-0.7%
Other Expenses	\$21.5	\$23.1	\$1.6	7.7%
<b>Total</b>	<b>\$148.6</b>	<b>\$157.1</b>	<b>\$8.5</b>	<b>5.7%</b>



# PROPOSED RATES



## FY 2018-19 Operating Budget

Tiers	Low Volume	Base Rate	Inefficient	Wasteful
Lowest Cost Source of Water	\$1.35			
District Wide Conservation	\$0.05	\$0.05	\$0.05	\$0.05
Melded Cost of Water		\$1.84		
Blended Cost of Baker and Potable Import			\$3.21	
Loaded Cost of Imported Water				\$3.35
Water Banking				\$0.25
Conservation			\$0.90	\$2.87
Natural Treatment Systems (NTS)			\$0.57	\$6.83
<b>Total Cost per Tier per ccf</b>	<b>\$1.40</b>	<b>\$1.89</b>	<b>\$4.73</b>	<b>\$13.35</b>
<b>FY 2017-18 Rates by Tier</b>	<b>\$1.36</b>	<b>\$1.70</b>	<b>\$4.09</b>	<b>\$12.06</b>
<b>Change</b>	<b>\$0.04</b>	<b>\$0.19</b>	<b>\$0.64</b>	<b>\$1.29</b>
<b>Percentage Change</b>	<b>2.9%</b>	<b>11.2%</b>	<b>15.6%</b>	<b>10.7%</b>
<b>Use of Sinking Fund for Rate Parity (M)</b>	<b>\$0.7</b>	<b>\$1.1</b>		

Irvine Ranch Water District

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## Proposed Rates for IRWD

### Typical Residential Customer

	Current Rate FY 2017-18	Proposed Rate FY 18-19	Rate Change	% Change
<b>Water</b>				
Service Charge *	\$ 10.30	\$ 10.35	\$ 0.05	
Commodity Charge **	<u>18.70</u>	<u>20.23</u>	<u>1.53</u>	
<b>Total Water Charge</b>	<b>\$ 29.00</b>	<b>\$ 30.70</b>	<b>\$ 1.58</b>	
<b>Sewer</b>				
Service Charge *	\$ 23.20	\$ 23.20	\$ 0.00	
<b>Total Typical Residential Monthly Bill</b>	<b>\$ 52.20</b>	<b>\$ 53.78</b>	<b>\$ 1.58</b>	<b>3.0%</b>

\* Treated water service charge assumes a 5/8" x 3/4" meter. Both the water and sewer service charges include components for enhancement and replacement capital. No additions have been included for either fund.

\*\* Commodity charges for a typical residential customer are based on 12 ccf (District average).  
 Current Rates: Low Volume \$1.36 Base \$1.70  
 Proposed Rates: Low Volume \$1.40 3% Base \$1.89 11%

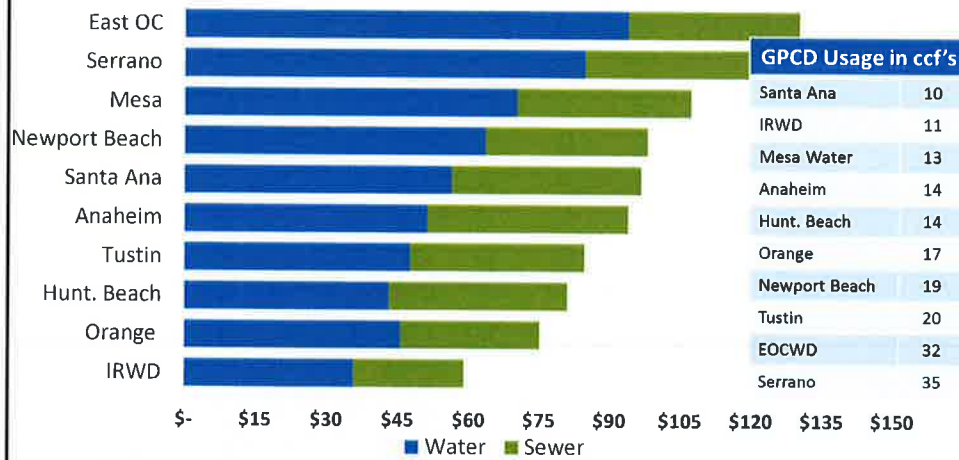
Irvine Ranch Water District

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## Comparison of Proposed Rates

Monthly Water & Sewer Bill Based on 15 ccf of Usage and Groundwater Availability

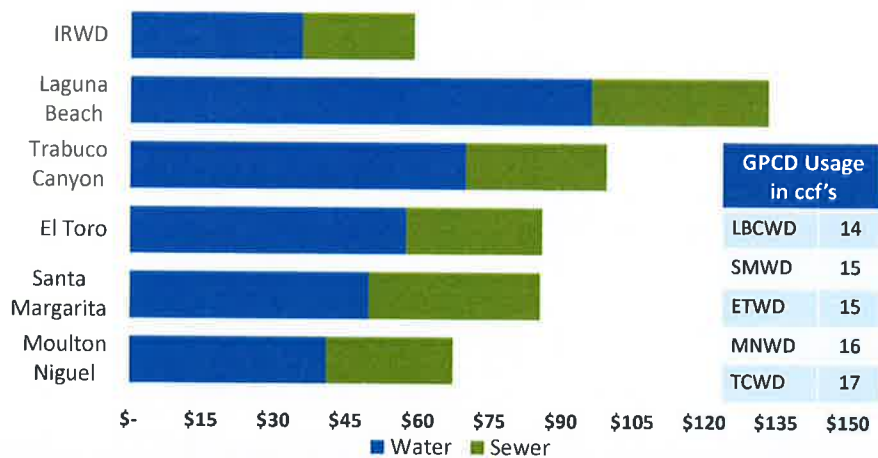


Irvine Ranch Water District

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## Comparison of Proposed Rates

Monthly Water & Sewer Bill Based on 15 ccf Usage and Imported Water



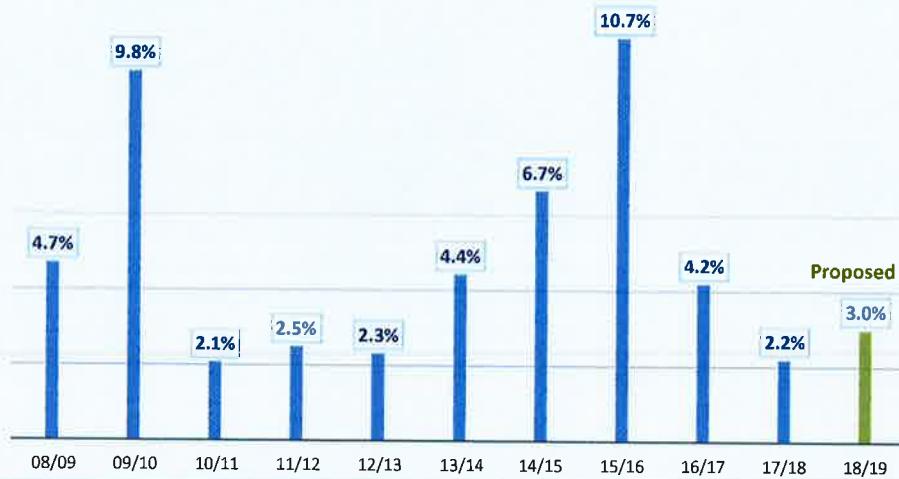
Irvine Ranch Water District

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## History of Rate Increases

### Average Monthly Rate Increase-Irvine Ranch Rate Area



Irvine Ranch Water District

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## Proposition 218 Notices

### Noticing Procedure & Results

May 4 - 101,283 notices mailed

As of June 21, 2018, 1,226 letters returned as undeliverable

Separate notices for:

*Residential, Commercial (CII), and Landscape*

As of June 21, 2018, 3 response letters received (included in agenda package).

Verification of protest letter counts by the District's independent auditors (Davis Farr)

Irvine Ranch Water District

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## Proposition 218 Notices

### Primary issues raised by the protest letters:

- (1 letter) Understanding the tiers and budgeted usage
- (2 letters) Simple protest of the rate increase.

### District response to letters:

- Individual responses
- Q & A on the website

## Recommendation

### **Recommended Board Actions:**

Adopt the Resolution to Approve the FY 2018-19 changes to Rates and Charges



QUESTIONS/DISCUSSION



June 25, 2018

Prepared and

Submitted by: K. Swan *KS*

Approved by: Paul A. Cook *co for PC*

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

July 12 Association of California Cities Orange County Summer Event  
July 20 Southern California Water Coalition Quarterly Luncheon, Cabazon  
August 22-24 Urban Water Institute's 25<sup>th</sup> Annual Water Conference, San Diego

Mary Aileen Matheis

July 12 Association of California Cities Orange County Summer Event  
July 20 Southern California Water Coalition Quarterly Luncheon, Cabazon

Douglas Reinhart

June 6 North Meets South Tour Welcome Reception  
August 22-24 Urban Water Institute's 25<sup>th</sup> Annual Water Conference, San Diego

Peer Swan

April 2 Santa Ana Watershed Project Authority – Regional Water Management  
Workshop, Riverside  
June 20 Greater Irvine Chamber of Commerce Celebrate Irvine  
August 22-24 Urban Water Institute's 25<sup>th</sup> Annual Water Conference, San Diego

John Withers

June 21 A Symposium to Celebrate Dr. Olson as a Steward of California's Water, UCI  
July 12 Association of California Cities Orange County Summer Event  
July 20 Southern California Water Coalition Quarterly Luncheon, Cabazon

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 HEREIN.

LIST OF EXHIBITS:

None.

lb-Board Mtgs Events.doc

June 25, 2018  
Prepared and  
Submitted by: L. Bonkowski  
Approved by: P. Cook *ca for PC*

CONSENT CALENDAR

MINUTES OF BOARD MEETINGS

SUMMARY:

Provided are the minutes of the June 11, 2018 and June 18, 2018 Regular Board meetings for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE JUNE 11, 2018 AND JUNE 25 2018 REGULAR BOARD MEETINGS BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – June 11, 2018 Minutes of Regular Board Meeting  
Exhibit "B" – June 18, 2018 Minutes of Regular Board Meeting

## EXHIBIT "A"

### MINUTES OF REGULAR MEETING – JUNE 11, 2018

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order at 5:00 p.m. by President Reinhart on June 11, 2018 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

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

Directors Absent: Matheis.

Also Present: General Manager Cook, Executive Director of Finance and Administration Clary, Executive Director of Engineering and Water Quality Burton, Executive Director of Water Policy Weghorst, Director of Water Operations Zepeda, Director of Maintenance Drake, Director of Water Operations Roberts, Director of Administrative Services Mossbarger, Director of Human Resources Roney, Human Resources Manager Srader, Director of Public Affairs Beeman, Legal Counsel Collins, Secretary Bonkowski, Assistant Secretary Swan, Principal Engineer Akiyoshi, Public Affairs Manager Fabris, Ms. Amy McNulty, and Mr. Andrew Pollard.

WRITTEN COMMUNICATIONS: None.

ORAL COMMUNICATIONS: Mr. Andrew Pollard introduced himself to the Board as a candidate for one of the open Board seats in November 2018.

### CONSENT CALENDAR

On MOTION by LaMar, seconded and unanimously carried, CONSENT CALENDAR ITEMS 3 THROUGH 5 WERE APPROVED AS FOLLOWS:

3. RESOLUTION RECOGNIZING DR. BETTY OLSON FOR HER SERVICE TO THE WATER INDUSTRY

Recommendation: That the Board adopt the following resolution by title recognizing Dr. Betty Olson for 40 years of stewardship in the water industry.

### RESOLUTION 2018-15

RESOLUTION OF THE BOARD OF DIRECTORS OF  
IRVINE RANCH WATER DISTRICT, ORANGE COUNTY,  
CALIFORNIA, RECOGNIZING DR. BETTY OLSON'S 40 YEARS  
OF STEWARDSHIP IN THE WATER INDUSTRY

## CONSENT CALENDAR (CONTINUED)

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

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

### 5. MINUTES OF REGULAR BOARD MEETINGS

Recommendation: That the minutes of the May 29, 2018 and June 4, 2018 Regular Board Meetings be approved as presented.

## ACTION CALENDAR

### WATER EFFICIENCY TACTICAL INCENTIVE FUNDING AUTHORIZATION

Executive Director of Water Policy Weghorst reported in July 2015, the Board approved a multi-year Water Conservation Participation Agreement with MWDOC, and that in each fiscal year, an addendum to the agreement are executed to allocate funding and to specify device rebate funding levels. Mr. Weghorst said that the District's emphasis on encouraging water use efficiency remains on achieving outdoor savings through the implementation of Residential, Commercial, Water Savings Incentive, Spray to Drip Conversion and Turf Removal programs.

Following discussion, on MOTION by Reinhart, seconded by LaMar and unanimously carried, THE BOARD AUTHORIZED THE GENERAL MANAGER TO ALLOCATE \$1,200,000 IN FUNDING TO THE FY 2018-19 REBATE PROGRAMS ADMINISTERED THROUGH THE WATER CONSERVATION PARTICIPATION AGREEMENT BETWEEN MWDOC AND IRWD; AUTHORIZED THE GENERAL MANAGER TO EXECUTE AN ADDENDUM TO THE AGREEMENT AS MAY BE NECESSARY TO ALLOCATE FUNDS TO SPECIFIC PROGRAMS AND MODIFY DEVICE INCENTIVE LEVELS BASED ON CUSTOMER PARTICIPATION RATES AND REGIONAL PROGRAM FUNDING LEVELS; AND DIRECTED STAFF TO AGENDIZE THE ISSUE OF PERFORMING A STUDY ON THE EFFECTS OF WATER EFFICIENCY/CONSERVATION MEASURES ON SEWER PIPES/TREATMENT PLANTS.

### INFORMATION SERVICES PROFESSIONAL SERVICES SUPPORT CONTRACT RENEWALS

The District requires additional resources to supplement existing staff to support and operate the Oracle Financial and Customer Care and Billing (CC&B) systems. In 2017, the Board authorized various outside service providers to assist with providing information technology services through June 2018. The providers include Infosys, who was the CC&B systems integrator, to provide managed support services; Outsource Technical to provide on-call programming, analysis, project management, and networking services; and Skoruz Technologies, experienced in providing on-call programming, analysis and project management services. Staff has identified the need to continue these support services through

Fiscal Year (FY) 2018-19. In addition, staff has identified specific one-time CC&B-related projects for completion by Infosys including: 1) implementation of new bill formats for the revised customer bills, 2) implementation of rates and charges for Fats, Oils and Greases (FOG), and 3) modifications in CC&B required for new functions in the GIS Field Mapplet application.

Following discussion and a request from Director Reinhart for staff to provide a status report, on MOTION by Swan, seconded and unanimously carried, THE BOARD AUTHORIZED THE GENERAL MANAGER TO EXECUTE PROFESSIONAL SERVICES AGREEMENTS FOR THE PERIOD JULY 1, 2018 TO JUNE 30, 2019 WITH: INFOSYS LTD. FOR \$300,000 FOR MANAGED SUPPORT SERVICES AND ONE-TIME PROJECTS; OUTSOURCE TECHNICAL FOR \$225,000 FOR ON-CALL PROGRAMMING, ANALYSIS, PROJECT MANAGEMENT, AND NETWORKING SERVICES; AND SKORUZ TECHNOLOGIES FOR \$225,000 FOR ON-CALL PROGRAMMING, ANALYSIS, AND PROJECT MANAGEMENT SERVICES.

### GENERAL MANAGER'S REPORT

General Manager Cook said that the District has been an active member in the Southern California Alliance of Publicly Owned Treatment Works, and that he was nominated and elected to be its Alternate Director for Orange County.

Mr. Cook said that Director Withers will be attending his last Board meeting as a Commissioner of the Orange County Local Agency Formation Commission this week.

He further said that next week he will be on vacation and Executive Director of Finance and Administration Clary will be Acting General Manager.

### DIRECTORS' COMMENTS

Director Withers reported on his attendance at an ISDOC Executive Committee Meeting, an OCBC Election Day luncheon, a WACO monthly meeting, and an OCSD Legislative and Public Affairs Committee meeting, and that he will be attending his last LAFCO meeting this week.

Director Swan reported on his attendance at a WACO monthly meeting, an OC Water Summit, a North meets South tour, and an OCWD Board meeting.

Director Withers left the Board room at 5:40 p.m.

Director LaMar reported on his attendance at an ACWA Board meeting and an OCBC Election day luncheon.

Director Reinhart reported on his attendance at a MWDOC Board workshop and the North meets South mixer. He said he was unable to attend the monthly WACO meeting and MWDOC Planning workshop.

Director Withers returned to the Board room at 5:47 p.m..

CLOSED SESSION

President Reinhart said that the following Closed Session will be held:

Conference with Labor Negotiators - Government Code Section 54957.6: Agency Designated

Representatives: Paul Cook and Jenny Roney

Employee Group: Managers, Supervisors and Confidential Employees

OPEN SESSION

Following the Closed Session, the meeting was reconvened with Directors Withers, Swan, LaMar and Reinhart present. President Reinhart said there was no action to report.

ADJOURNMENT

President Reinhart adjourned the meeting.

APPROVED and SIGNED this 25th day of June, 2018.

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President, IRVINE RANCH WATER DISTRICT

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Secretary IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

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Claire Hervey Collins, Legal Counsel – Lewis Brisbois



## EXHIBIT “B”

### MINUTES OF REGULAR MEETING – JUNE 18, 2018

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order at 5:00 p.m. by President Reinhart on June 18, 2018 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

Directors Present: Reinhart, Withers (arrived at 5:12 p.m.), Matheis, Swan, and LaMar.

Directors Absent: None.

Also Present: Executive Director of Finance and Administration Clary, Executive Director of Engineering and Water Quality Burton, Executive Director of Water Resources Weghorst, Director of Treasury and Risk Management Jacobson, Director of Public Affairs Beeman, Government Relations Officer Compton, Legal Counsel Collins, Legal Counsel DeMayo, Secretary Bonkowski, Assistant Secretary Swan, Principle Engineer Mori, Mr. Andrew Pollard, Ms. Deborah Diep, and Mr. Bruce Newell.

WRITTEN COMMUNICATIONS: None.

ORAL COMMUNICATIONS: None.

### PUBLIC HEARING

#### EVALUATING A CHANGE IN THE ELECTIONS PROCESS FOR THE IRVINE RANCH WATER DISTRICT BOARD OF DIRECTORS AND ESTABLISHING DIVISION BOUNDARIES

President Reinhart declared it to be the time and place for a second hearing on evaluating a change in the elections process for the Irvine Ranch Water District Board of Directors and establishing division boundaries, and asked the Board Secretary to announce how the hearing was noticed.

Secretary Bonkowski announced that the hearing was noticed by publication in the *Orange County Register* on Sunday, June 3, 2018; by publication in Korean in the *Korea Times* on Thursday, June 14, 2018, and Saturday, June 16, 2018; by publication in Traditional Chinese in the *World Journal* on Saturday, June 16, 2018, and Sunday, June 17, 2018; by publication in Farsi in *Haftah Bazaar* on Friday, June 15, 2018; by electronic posting in English, Farsi, Korean, Traditional Chinese, and Spanish on the IRWD website, through which the notice can be translated into approximately 20 languages; and by physical posting at IRWD’s headquarters. The Board Secretary presents affidavits of posting and proof of publication to the Board related to the hearing. She presented affidavits of posting and proof of publication to the Board.

## PUBLIC HEARING (CONTINUED)

On MOTION by Swan, seconded by Matheis, THE AFFIDAVITS OF POSTING AND PROOF OF PUBLICATION AS PRESENTED BY THE BOARD SECRETARY WERE RECEIVED AND FILED.

President Reinhart asked legal counsel to describe the nature of the proceedings, and to explain the purpose of the hearing.

Legal Counsel DeMayo described the nature of the proceedings, and explained the purpose of the hearing as being the opportunity to invite and solicit public comment on the proposed move to by-division elections, the composition of divisions and the sequence of elections prior to the drawing a draft map or maps of proposed division boundaries.

On MOTION by Swan, seconded by Matheis, and unanimously carried, THE PUBLIC HEARING WAS OPENED TO SOLICIT AND ACCEPT COMMENTS ON THE PROPOSED MOVE TO BY-DIVISION ELECTIONS AND THE COMPOSITION OF DIVISIONS PRIOR TO THE DRAWING OF A DRAFT MAP OR MAPS OF PROPOSED DIVISION BOUNDARIES.

President Reinhart asked that he Government Relations Officer provide a report to the Board regarding the District's evaluation of changing its election process, and on any written comments received.

Government Relations Officer Compton said that there was no new data to provide since and first public hearing, and also said there were no written comments received.

President Reinhart inquired whether there is any person present who would like to provide comments on the proposed move to by-division elections, the composition of divisions and the sequence of elections. There were none.

President Reinhart inquired whether there are any comments or questions from members of the Board of Directors. There were none.

On MOTION by Swan, seconded by Matheis and unanimously carried, THE SECOND PUBLIC HEARING WAS CLOSED AND STAFF WAS AUTHORIZED TO AGENDIZE A BOARD WORKSHOP FOR AUGUST 13, 2018, FOR THE BOARD OF DIRECTORS TO DISCUSS CRITERIA TO BE USED BY THE DISTRICT WHEN DRAWING PROPOSED DIVISION BOUNDARIES.

## GENERAL MANAGER COMMENTS

Acting General Manager Clary reported that General Manager Cook is currently on vacation.

## DIRECTORS' COMMENTS

Director Matheis reported on her attendance at an ISDOC Executive Committee Meeting, an OCBC election day lunch meeting, a North meets South tour, a California Water Law and Policy

33 annual conference in San Francisco, and a Shadetree Partnership Board meeting, and complimented Tom and Leslie Bonkowski along with Dave Asman on their efforts with this non-profit organization. Director Withers arrived at 5:12 p.m.

Director Swan reported on his attendance at an OCBC Infrastructure meeting, an OCWD Water Issues Committee Meeting, an OCWD Finance Committee meeting, and an ACWA Region I event.

Director LaMar reported on his attendance at an ACWA Region I event, and that he will be traveling to Sacramento this week for an ACWA Selection Committee meeting relative to hiring its Executive Director along with an ACWA Region 3 meeting on Thursday and Friday.

Director Withers reported that he along with Director Swan attended the retirement event for Ms. Carol Wohl of Five Point Communities and his last LAFCO Commissioners' meeting last Wednesday, and that tomorrow he will be attending an NWRI's strategic planning meeting.

Director Reinhart reported on his attendance at a MWDOC Administrative and Finance Committee meeting, and a SOCWA Board meeting.

#### ADJOURNMENT

President Reinhart adjourned the meeting at 5:26 p.m. in memory of Bill Kahn, who served as a Board member for El Toro Water District for 17 years.

APPROVED and SIGNED this 25th day of June, 2018.

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President, IRVINE RANCH WATER DISTRICT

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Secretary IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:  
LEWIS BRISBOIS BISGAARD & SMITH, LLP

By: \_\_\_\_\_  
District Counsel

June 25, 2018

Prepared and

submitted by: C. Compton

Approved by: Paul A. Cook



## CONSENT CALENDAR

### 2018 LEGISLATIVE AND REGULATORY UPDATE

#### SUMMARY:

This report provides an update on the 2018 legislative session and IRWD's legislative and regulatory priorities. As legislation and regulations develop, 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:

- *SB 998 (Dodd, D-Napa): Discontinuation of Residential Water Service* — “OPPOSE”; and
- *Water Supply and Water Quality Act of 2018* — “SUPPORT”.

#### BACKGROUND:

This year, the last day for fiscal committees to hear fiscal bills was May 25, while June 1 was the house of origin deadline. Any bill that did not meet the June 1 deadline and does not contain an urgency clause is now dead. The next major legislative deadline is June 15, which is the constitutional deadline for passage of the budget, while June 28 is the last day for a legislative measure to qualify for the November 8 General Election.

A copy of the 2018 Legislative Matrix is attached as Exhibit “A”. Exhibit “B” is the 2018 Legislative Update Report Links to Bill and Regulatory Texts, which contains links to the bills discussed below, unless a separate exhibit is noted.

#### State Budget Update:

##### *April Revenue Numbers:*

On May 10, 2018, State Controller Betty Yee released her monthly report on the State's finances. She announced that the State took in \$18.03 billion, or 5.3 percent, more during the month of April than estimates contained within the Governor proposed Fiscal Year (FY) 2018-2019 budget. According to the Controller:

“For the first 10 months of the 2017-18 fiscal year that began in July, total revenues of \$107.13 billion are \$4.72 billion above estimates in the enacted budget and \$3.82 billion higher than January's revised fiscal year-to-date predictions. Total fiscal year-to-date revenues are \$10.25 billion higher than for the same period in FY 2016-17.”

April's higher-than-expected revenues were largely due to personal income tax receipts, which were \$715.9 million, or 5.3 percent, higher than the revised January estimates. This is \$2.58

billion higher than was anticipated in the Governor's proposed budget. Sales tax revenues were \$139.1 million, or 17.2 percent, higher than expected for April although sales tax revenues for the fiscal year is consistent with the assumptions included in the Governor's proposed FY 2018-2019 budget. Corporate tax revenues exceeded estimates in the Governor's proposed budget by 13.5 percent and came in at \$2.30 billion, or \$78.4 million, higher than projected.

The State's outstanding loan balance was \$4.52 billion, which was \$6.35 billion less than proposed budget estimates. Unused borrowable resources exceed projections by 36.9 percent.

*Governor's May Revise:*

Governor Brown released the May revision to his proposed State Fiscal Year 2018-2019 Budget (the May Revise) on May 11, 2018. The May Revise proposes \$137.56 billion in total general expenditures, \$141.96 billion in total general fund revenues, and designates \$13.76 billion for the Budget Stabilization Account/Rainy Day Fund. This compares to the \$131.69 billion in total general fund expenditures, \$135.14 billion in total general fund revenues, and \$13.46 billion designated for the Budget Stabilization Account/Rainy Day Fund in the Governor's Proposed Budget, released in January.

Overall, the May Revise projects an additional \$8 billion in higher revenues through FY 2018-2019, as compared to the Proposed Budget. Governor Brown, cautioning against adding additional ongoing commitments due to the State's sizeable financial vulnerability during the next recession, proposes to use the \$8 billion for existing on-going expenses and for one-time purposes. A portion of the \$8 billion will be needed for on-going expenses related to increased spending commitments made related to Medi-Cal, Cal Grants, child care, In-Home Supportive Services and foster care reform; however, \$4 billion of the \$8 billion is proposed for one-time purposes related to infrastructure, homelessness and mental health services.

Additionally, as its primary short-term fiscal goal, the May Revise continues to prioritize the filling of the Rainy Day Fund. In 2014, the voters approved the Rainy Day Fund, when they approved Proposition 2, which amended the State Constitution to require the establishment of a reserve of up to 10 percent of tax revenues during high capital gains years for use in lower revenue years. By the end of FY 2017-2018, the Rainy Day Fund is projected to be at \$9.4 billion, or 71 percent, of the constitutionally required target of 10 percent of tax revenues, and the May Revise maintains the January proposal to direct additional funding to the Rainy Day Fund so that it will be funded at 100 percent by the end of FY 2018-2019.

The May Revise reflects the Administration's concern over an expected economic downturn and the rise in pension and healthcare costs statewide. For these reasons, the May Revise cautions against any further long-term spending increases. The Governor's position, as stated in the May Revise, is that:

“The past six years have been the longest stretch of balanced budgets in recent history. With a volatile revenue structure and limited spending flexibility, the California budget demands constant vigilance to stay in balance. These six years of relative fiscal stability illustrate the benefits of a prudent approach to budgeting—building up a Rainy Day Fund, avoiding overcommitting to one-time revenues, and making tough decisions when

necessary. These years provide a sharp contrast to the decade of budget crises that preceded it—a decade that was defined by using one-time revenues from capital gains for ongoing expenditures while deferring tough decisions through borrowing and gimmicks. The next recession will be upon California soon enough, but a full Rainy Day Fund and a commitment to prudent one-time spending are the best tools available to guide the state through it.” (2018-19 May Revision, Introduction, Page 10).

These concerns, and an assumption that the Federal tax changes will have a negative long-term impact on California’s economic growth, have led Governor Brown to put forth a budget that prioritizes the Rainy Day Fund and one-time expenditures. Despite the limited new spending, there are several items of interest to the District. Of interest to IRWD are the budget’s proposed Cap-and-Trade revenue expenditure plan and forest carbon plan. More detail on each of these proposals is provided below.

*Cap-and-Trade Revenue Expenditure Plan:*

In April 2015, the Governor issued Executive Order B-30-15 setting the State’s greenhouse gas emissions reduction target at 40 percent below 1990 levels by 2030. Additionally, AB 398 was enacted last year extending the Cap-and-Trade Program through 2030 by a two-thirds bipartisan vote, further strengthening the revenues the State is expecting to receive from the Cap-and-Trade Program. In order to further California’s climate change goals and to continue the conversation regarding the expenditure of the Cap-and-Trade revenues, the May Revision continues to maintain a proposed Cap-and-Trade revenue expenditure plan.

The May Revision increases the proposed \$1.2 billion Cap-and-Trade expenditure plan contained in the Proposed Budget to \$1.3 billion. Despite the increased expenditure plan, both the State Senate and Assembly budget committees adopted higher Cap-and-Trade expenditure plans. The Senate adopted a \$1.45 billion plan and the Assembly adopted a \$1.55 billion plan. The Cap-and-Trade expenditures are now under discussion in the budget negotiations. A comparison of the Governor’s, Senate’s and Assembly’s plans is provided below:

*Proposed Cap-and-Trade Expenditure Plans  
 (Fiscal Year 2018-2019)*

Program	<i>(In Millions)</i>		
	Governor’s Proposed Amount	Assembly’s Proposed Amount	Senate’s Proposed Amount
AB 617 - Community Air Protection	\$250	\$250	\$310
Technical Assistance to Community Groups	\$5	\$5	\$5
Clean Vehicle Rebate Project	\$175	\$175	\$175
Clean Trucks, Buses, & Off-Road Freight Equipment	\$160	\$230	\$160
Enhanced Fleet Modernization Program, School Buses & Transportation Equity Projects	\$100	\$100	\$100
Low Carbon Fuel Production	\$25	\$0	\$5

Agricultural Diesel Engine Replacement & Upgrades	\$102	\$85	\$102
Energy Efficiency	\$34	\$34	\$34
Renewable Energy	\$4	\$4	\$4
Health Soils	\$5	\$5	\$0
Healthy & Resilient Forests	\$160	\$160	\$203
Prescribed Fire and Fuel Reduction	\$27	\$27	\$27
Regional Forest Health Projects	\$20	\$20	\$20
Local Fire Response	\$25	\$25	\$25
Methane Reduction	\$99	\$99	\$99
Waste Diversion	\$20	\$40	\$20
Transformative Climate Communities	\$35	\$25	\$80
California Integrated Climate Investment Program	\$20	\$20	\$5
Energy Corps.	\$6	\$6	\$10
California Climate Change Technology and Solutions Initiative	\$35	\$35	\$55
Low Income Weatherization	\$0	\$20	\$30
State Water Efficiency and Enhancement Program	\$0	\$5	\$0
Urban Forestry	\$0	\$20	\$0
Urban Greening	\$0	\$60	\$5
Wetlands	\$0	\$20	\$0
Coastal Adaptation	\$0	\$6	\$0
Natural Lands Adaptation	\$0	\$20	\$0
Ports	\$0	\$50	\$0
Local Government Sharing Best Practices	\$0	\$1	\$0
Workforce Development and Training	\$0.4	\$0	\$0.4
<b>TOTAL</b>	<b>\$1,297</b>	<b>\$1,547</b>	<b>\$1,449</b>

In addition to the proposed expenditures plans, it is important to note that SB 535 (2011) requires that at least 10 percent of the Cap-and-Trade proceeds be invested directly in disadvantaged communities and that at least 25 percent of the proceeds benefit those communities. The communities that qualify as disadvantaged have been identified by the California Environmental Protection Agency using CalEnviroScreen.

Staff will provide an update on the budget discussions related to expenditure of Cap-and-Trade revenues, as appropriate.

*Forest Carbon Plan:*

Following the Governor’s January State the State announcement that he would review and improve how the State manages its forests and reduces the threat of fires and prior to the release of the May Revise, Governor Brown issued Executive Order B-52-18 on forest management and wildfires. The executive order seeks to improve forest management and restoration; provide regulatory relief for forest health and fuels reduction programs; reduce barriers for prescribed fires; boost education and outreach regarding forest restoration; streamline fuel reductions projects and permitting; and support wood products innovation. The full text of the executive

order can be read at <https://www.gov.ca.gov/wp-content/uploads/2018/05/5.10.18-Forest-EO.pdf>.

Governor Brown's intent behind the executive order is to actively manage California's forests to combat tree mortality, increase the ability of forest to capture carbon and improve forest management. To complement the executive order, the May Revise includes \$96 million for the Forest Carbon Plan.

### Legislation Related to a Water Tax:

#### *Water Tax — SB 623 (Monning, D-Santa Cruz) and Budget Trailer Bill Proposal:*

In 2017, Senator Bill Monning (D-Santa Cruz) authored SB 623. SB 623 would have established the Safe and Affordable Drinking Water Fund in the State Treasury and would have provided that the moneys in the fund be continuously appropriated to the State Water Resources Control Board for grants, loans, contracts, or services to assist those without access to safe and affordable drinking water consistent with a fund implementation plan to be adopted annually by the State Board. On August 21, 2017, the bill was amended to include a fee on fertilizer, a fee on milk, and a monthly water tax of the following:

- \$0.95 per month for meters less than or equal to 1-inch;
- \$4.00 per month for meters less than or equal to 2-inch;
- \$6.00 per month for meters less than or equal to 4-inch;
- \$10.00 per month for meters greater than 4-inch; and
- Customers without a meter would be taxed at a rate of \$0.95.

SB 623 remains in the Assembly Rules Committees. Last year, IRWD adopted an "oppose/oppose unless amended" position on SB 623 and advocate against any water tax inconsistent with the Board-adopted policy on a public good charge/statewide user fee.

In addition, earlier this year the Administration released a budget trailer bill labeled as "Safe and Affordable Drinking Water Act" which was proposed in the form of a budget trailer bill the agricultural fees and water tax included in SB 623. Given the budget trailer bill's similarity to SB 623 and its inconsistency with the Board-adopted policy on a public good charge/statewide user fee, IRWD adopted an "oppose/oppose unless amended" position on the budget trailer bill. The budget trailer bill was heard by the Senate Budget Subcommittee No. 2 on Resources, Environmental Protection, Energy and Transportation and the Assembly Budget Subcommittee No. 3 on Resources and Transportation and the in March and May. The Senate Budget Subcommittee No. 2 on Resources, Environmental Protection, Energy and Transportation took an action to fund drinking water needed with General Fund and Proposition 2 revenues while the Assembly Budget Subcommittee No. 3 passed the Administration's budget trailer bill.

Despite the Assembly Budget Subcommittee's action, the Assembly Budget Committee took action to rescind the Assembly Budget Subcommittee No. 3's approval of the budget trailer bill. Instead, the Assembly Budget Committee rejected the Administration's budget trailer bill, adopted placeholder trailer bill language relating to addressing water pollution clean-up efforts,



and approved a one-time loan of \$4.7 million from the Underground Storage Tank Cleanup Fund to begin implementation.

As a result of both the Senate and Assembly Budget Committee actions, the Administration's budget trailer bill was placed before the Budget Conference Committee. As of the writing of this report, the Conference Committee is still considering which actions to take on the Administration's budget trailer bill and on safe and affordable drinking water.

The Association of California Water Agencies (ACWA) and the water coalition it is leading have urged the Conference Committee to reject the Administration's budget trailer bill and look to one of the four alternatives proposed by ACWA. Exhibit "C" provides the material on the "Funding Alternatives to the Proposed Tax on Drinking Water" that ACWA is proposing.

Staff has continued to work with ACWA and the District's other industry partners to oppose a water tax. Staff will be available to provide an update on any new developments.

*AB 2050 (Caballero, D-Salinas) — Small Water System Authority Action of 2018:*

In addition to the discussions taking place on a water tax to address water quality issues within disadvantaged communities, the water community to support AB 2050 (Caballero, D-Salinas) as one way to address the challenges facing many communities in the state. The Eastern Municipal Water District (EMWD), in partnership with the California Municipal Utilities Association (CMUA), are sponsoring AB 2050 to address the management and governance challenges facing water systems within disadvantaged communities.

AB 2050 would create a new category of water agency — a Small System Water Authority — with unique powers to absorb, improve and competently operate currently non-compliant public water systems with either contiguous or non-contiguous boundaries. Small System Water Authorities would consolidate failing small water systems that are voluntarily donated to the Authority to provide technical, managerial and financial capabilities to ensure the provision of safe, clean, affordable, and accessible water and local governance.

AB 2050 is schedule to be heard in the Senate Enviromental Quality Committee on June 20. Given the important role governance will play in California's ability to address water quality issues within disadvantaged communities, IRWD has a "support" position on AB 2050.

#### 2018 State Legislative Update:

##### *Other Consolidation Bills:*

In addition to AB 2050, there are several other bills related to consolidations of water or wastewater agencies:

- *AB 2501(Chu, D- Milpitas) — Drinking water: Consolidation and Extension of Service:* AB 2501, authored by Assemblymember Kaasen Chu (D-Milpitas), seeks to amend the consolidation authorities granted to the State Board in SB 88 (2015). SB 88 authorized the State Board to order a water system to take over and consolidate with a public water

system or a state small water system that consistently fails to provide an adequate supply of safe drinking water within a disadvantaged community in order to ensure that those communities would no longer receive unsafe drinking water. In addition to the authority granted in SB 88, AB 2501 seeks to extend the State Board's consolidation authority. If enacted, AB 2501 would allow the State Board to order a water system to take over, consolidate or provide service where the disadvantaged community is reliant on a water system that has 200 connections or less, individual domestic wells, or an unregulated water system serving fewer than five connections. AB 2501 was passed by the Assembly on a vote of 55 to 21, and

- *SB 1215 (Hertzberg, D-Van Nuys) — Drinking Water Systems and Sewer Systems: Consolidation and Extension of Service:* Senator Bob Hertzberg has authored SB 1215. Like AB 2501, SB 1215 seeks to expand the State Board's authority for extension of service. Specifically, SB 1215 would authorize the State Board to order a sewer service provider to extend service to a disadvantaged community or where the residents of a disadvantaged community are served by an onsite sewage treatment system (i.e. septic systems) that does not provide adequate sewage service.

Both AB 2050 and SB 1215 have been topics of conversation within IRWD's industry associations. Staff will be available to provide an update on these discussions.

*AB 1912 (Rodriguez, D-Pomona) — Joint Powers Authority Public Employees' Retirement Liability:*

Existing law permits two or more public agencies to form a joint powers authority (JPA). A JPA is a separate entity from the public agencies that form it; however, under existing law, the debts, liabilities and obligations of the JPA become the debts, liabilities and obligations of its member agencies unless the agreement governing the JPA states otherwise. In the case of pension and retirement obligations, the JPA agreement may limit those obligations and liabilities to be obligations and liabilities of the JPA alone. AB 1912, authored by Assemblymember Freddie Rodriguez (D-Pomona), would change this.

Specifically, AB 1912 would made both current and former member agencies of a JPA liable for a portion of the JPA's retirement liabilities. Member agencies of a JPA would be required to mutually agree as to the apportionment of the JPA's retirement liabilities, provided that the agreed-to split equals the total retirement liability of the JPA. If the JPA's member agencies are unable to mutually agree to apportionment, the retirement liabilities will be apportioned based on the share of service the member agency received from the JPA or by the population of each member agency.

*AB 3206 (Friedman, D-Burbank) — Water Conservation: Water Meters: Accuracy and Performance Standards*

Assembly Member Friedman authored AB 3206 to reduce water loss and water waste by auditing water meters. This bill would require the California Energy Commission (CEC) to adopt regulations setting standards for the accuracy of water meters purchased on and after the effective date of the regulation setting the standards. Additionally, the bill would require the

State Water Resources Control Board, when adopting the water loss standards under SB 555 (2016), to adopt protocols to be used by each urban water supplier for the regular sampling and testing of its customers' service meters to establish a statistically sound estimate of the accuracy of the water meters serviced by the urban water supplier. IRWD has sought amendments through our coalition to use AWWA standards for water meters. Previous amendments requested removed the requirement that the CEC establish the useful life a meter.

*SB 998 (Dodd, D-Napa) — Discontinuation of Residential Water Service:*

SB 998, authored by Senate Bill Dodd (D-Napa), would establish new statutory provisions governing when a public water system may discontinue water service at a residential property. Among its many provisions, the bill would prohibit a public water system from discontinuing residential water service for nonpayment until a customer has been delinquent for at least 60 days and has been provided adequate notice about their options to avoid discontinuation of their water service. The bill also prohibits, if certain situations exist, the discontinuation of water service. The bills would prohibit the discontinuation of water service where all of the following conditions are met:

- The customer, or a tenant of the customer, submits to the water provider certification from a licensed medical professional that that discontinuation of residential service will be life-threatening to, or pose a serious threat to the health and safety of, a resident of the premises where the service is being provided;
- The customer demonstrates that he or she is financially unable to pay their bill within the normal payment period; if any member of the customer's household is a recipient of CalWORKS, CalFresh, general assistance, Medi-Cal, Supplemental Security Income/State Supplementary Payment Program, or California Special Supplemental Nutrition Program for Women, Infants and Children; or he or she declares that the household's annual income is less than 200 percent of the federal poverty level; and
- The customer is willing to enter into an amortization agreement, alternative payment schedule or plan for deferred or reduce payment with respect to the delinquent charges.

Additionally, the bill limits a water provider's ability to discontinue service if the customer is delinquent on a payment required under an amortization agreement, alternative payment schedule or plan for deferred or reduced payment plan. The bill would require that service could not be discontinued until the customer was 60 days delinquent on those charges.

SB 998 also limits reconnection fees and interest charges on past due bills. The bill limits reconnection fees to \$50.00 or less for a reconnection during normal operating hours and \$150.00 or less during non-normal operating hours. It would also require that reconnection and interest charges be waived for a residential customer who demonstrates to a water provider that their household income is below 200 percent of the federal poverty line.

Despite requests that these limits and waiver of charges be removed from the bill, the author has indicated that he will retain these provisions without change. As a result, ACWA, CMUA,

League of Cities, California Water Association and California Special Districts Association are considering moving from an “oppose unless amended” position to “oppose” positions. They have asked that water agencies also consider moving to an “oppose” position.

Staff has been and will continue to participate in the ACWA and CMUA working group on the bill. At this time, staff recommends that the Board consider an “oppose” position on SB 998 because the author has rejected the amendments requested by the water community which would make the bill consistent with Proposition 218’s cost-of-service requirements.

2018 State Water Bonds:

*Water Supply and Water Quality Act of 2018:*

The Water Supply and Water Quality Act of 2018 is the \$8.877 billion general obligation bond proposed by Jerry Meral for the November 2018 election. The bond, which has qualified for the November 2018 ballot, allocates \$8.877 billion to the following categories:

<b>Category of Funding</b>		<b>Total (in millions)</b>
<b>Groundwater</b>	Groundwater – SGMA Compliance	\$675
	Groundwater Desalination	\$400
<b>Water &amp; Wastewater Infrastructure</b>	Stormwater	\$550
	Safe Drinking Water	\$500
	Wastewater Recycling	\$400
	Wastewater Treatment in Disadvantaged Communities	\$250
	Water Measurement	\$60
	Office of Sustainable Water Solutions	\$10
	Integrated Regional Water Management	\$5
<b>Water Conservation</b>	Urban Water Conservation	\$300
	Agricultural Water Conservation Incentives	\$50
	Energy Commission Water and Energy Program	\$15
<b>Flood Control</b>	Flood Control Reservoirs	\$200
	San Francisco Bay Wetlands and Flood Improvements	\$200
	Central Valley Flood Management	\$100
<b>Watershed &amp; Habitat</b>	Watershed Improvements	\$2,355
	Water for Wildlife	\$930
	Watershed Restoration for Fisheries	\$400
	Land Management for Water Yield	\$100
	Conservation Corps	\$40

<b>Specific Project Funding</b>	Madera and Friant Kern Canals	\$750
	Oroville Repair	\$200
	Bay Area Regional Reliability Partnership	\$250
	San Joaquin River Settlement	\$100
	Sutter Butte Flood Management	\$21
	American River Basin Planning	\$10
	North Bay Aqueduct Planning	\$5
	Butte County Emergency Equipment	\$1
<b>Total</b>		<b>\$8,877</b>

Given the allocations included in the bond, staff recommends that the Board adopt a “support” position on the Water Supply and Water Quality Act of 2018.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Water Resources Policy and Communications Committee on June 13, 2018.

RECOMMENDATION:

THAT THE BOARD ADOPT AN “OPPOSE” POSITION ON SB 998 (DODD, D-NAPA) AND A “SUPPORT” POSITION ON THE WATER SUPPLY AND WATER QUALITY ACT OF 2018.

LIST OF EXHIBITS:

Exhibit “A” – IRWD Legislative Matrix

Exhibit “B” – 2018 Legislative Update Report Links to Bill Texts

Exhibit “C” – ACWA’s Funding Alternatives to the Proposed Tax on Drinking Water

**EXHIBIT "A"**  
**IRWD 2018 LEGISLATIVE MATRIX**  
**Updated 06/07/2018**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
<b>AB 18</b> Garcia E (D)	Clean Water, Climate, and Coastal Protection Act		Enacts the California Clean Water, Climate, Coastal Protection and Outdoor Access For All Act, which would authorize the issuance of bonds to finance a clean water, climate, and coastal protection and outdoor access for all program. Provides for the submission of these provisions to the voters at the statewide direct primary election.	08/31/2017 - In SENATE. Joint Rule 62(a) suspended.;08/31/2017 - From SENATE Committee on NATURAL RESOURCES AND WATER: Do pass to Committee on GOVERNANCE AND FINANCE.;08/31/2017 - From SENATE Committee on GOVERNANCE AND FINANCE: Do pass to Committee on APPROPRIATIONS.
<b>AB 161</b> Levine (D)	Department of Finance: Infrastructure Investment		Authorizes the Department of Finance to identify infrastructure projects in the state for which the department will guarantee a rate of return on investment for an investment made in that infrastructure project by the Public Employees' Retirement System.	08/21/2017 - In SENATE Committee on APPROPRIATIONS: Not heard.
<b>AB 196</b> Bigelow (R)	Greenhouse Gas Reduction Fund: Water Supply		Amends the Global Warming Solutions Act, which creates the Greenhouse Gas Reduction Fund and authorizes specified investments, including water use and supply. Authorizes the use of the moneys in the fund for electric pump efficiency, water and wastewater systems, pump and pump motor efficiency improvements, and drinking water transmission and distribution systems' water loss if the investment furthers the regulatory purposes of the act and is consistent with law.	09/01/2017 - In SENATE Committee on APPROPRIATIONS: Held in committee.
<b>AB 732</b> Frazier (D)	Levee Maintenance		Extends indefinitely the operation of the authorization to advance funds to reimburse local agencies under a program for the maintenance or improvement of project or nonproject levees. Postpones the operation of certain related provisions.	09/01/2017 - In SENATE Committee on APPROPRIATIONS: Held in committee.
<b>AB 869</b> Rubio (D)	Sustainable Water Use: Recycled Water		Requires long-term standards for urban water conservation and water use to include a credit for recycled water. Prohibits an urban retailer water supplier from being required to reduce the	08/24/2017 - From SENATE Committee on NATURAL RESOURCES AND WATER with

**IRWD 2018 LEGISLATIVE MATRIX**  
**Updated 06/07/2018**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
			amount of recycled water it produces, sells, or distributes for beneficial potable or nonpotable uses during a period when water conservation measures are in effect.	author's amendments.;08/24/2017 - In SENATE. Read second time and amended. Re-referred to Committee on NATURAL RESOURCES AND WATER.
<b><u>AB 987</u></b> Calderon I (D)	Water Quality, Supply, and Infrastructure Improvement		Amends existing law relating to the State General Obligation Bond Law. Relates to the capital asset exception provided under Proposition 1. Clarifies that a conflict exists for purposes of that exception if any provision of this division authorizes, either expressly or by necessary implication, a project or program that would not result in the creation of a capital asset, including projects relating to the prevention, cleanup, treatment, or remediation of contaminated groundwater, or other such projects.	09/11/2017 - In SENATE. Read second time. To third reading.;09/11/2017 - Re-referred to SENATE Committee on RULES.
<b><u>AB 1000</u></b> Friedman (D)	Water Conveyance: Unused Facility Capacity	WATCH	Prohibits a transferor of water from using a water conveyance facility that has unused capacity to transfer water from a groundwater basin underlying desert lands that is in the vicinity of specified federal lands or state lands to outside of the groundwater basin unless the State Lands Commission, in consultation with the Department of Fish and Wildlife, finds that the transfer of the water will not adversely affect the natural or cultural resources of those federal and state lands.	09/01/2017 - In SENATE Committee on APPROPRIATIONS: Held in committee.
<b><u>AB 1017</u></b> Santiago (D)	Collective Bargaining Agreements: Arbitration		Amends the existing law, with regard to disputes concerning collective bargaining agreements for private employees. Provides for such provision apply to public employment. Limits liability for attorney's fees under such provisions to a labor organization or employer.	09/15/2017 - In ASSEMBLY. Ordered returned to SENATE. *****To SENATE.
<b><u>AB 1270</u></b> Gallagher (R)	Dams and Reservoirs: Inspections and Reporting		Amends existing law that requires the Department of Water Resources to inspect dams, reservoirs, and appurtenant structures once per fiscal year. Requires the owner of a dam to operate critical outlet and spillway control features on an annual basis and to demonstrate their full operability in the presence of the	02/26/2018 - Signed by GOVERNOR.;02/26/2018 - Chaptered by Secretary of State. Chapter No. 2018-3

**IRWD 2018 LEGISLATIVE MATRIX**  
**Updated 06/07/2018**

<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
			Department. Provides certain inspection reports may be withheld from public release. Requires the Department to provides specified information on its website.	
<b>AB 1273</b> Gallagher (R)	Environmental Quality Act: Exemption: Levee Repairs		Amends the California Environmental Quality Act (CEQA). Exempts from the requirements of the CEQA, repairs of critical levees of the State Plan of Flood Control within an existing levee footprint to meet standards of public health and safety. Requires the lead agency to take certain actions regarding the repairs.	07/11/2017 - In SENATE Committee on NATURAL RESOURCES AND WATER: Failed passage.
<b>AB 1323</b> Weber (D)	Sustainable Water Use and Demand Reduction		Requires the Department of Water Resources to convene a stakeholder workgroup. Requires the workgroup to develop, evaluate, and recommend proposals for establishing new water use targets for urban water suppliers and report to the Governor and the Legislature. Requires all expenses to be the responsibility of the nonstate agency stakeholders.	08/21/2017 - In SENATE Committee on APPROPRIATIONS: To Suspend File.
<b>AB 1420</b> Aguiar-Curry (D)	Water Rights: Small Irrigation Use		Requires State Water Resources Control Board to give priority to adopting general conditions that permit a registrant to store water for small irrigation use during times of high streamflow in exchange for the registrant reducing diversions during periods of low streamflow. Exempts an entity from the requirement to enter into a lake or streambed alteration agreement with the department under specified circumstances.	09/01/2017 - In SENATE Committee on APPROPRIATIONS: Held in committee.
<b>AB 1654</b> Rubio (D)	Water Conservation	CO-SPONSOR & SUPPORT	States the intent of the Legislature to enact legislation necessary to help make water conservation a California way of life.	07/19/2017 - Re-referred to SENATE Committee on RULES.
<b>AB 1667</b> Friedman (D)	Water Management Planning	OPPOSE	Requires the State Water Resources Control Board to adopt long-term standards for urban water conservation and water use on or before the specified date. Requires the board to adopt performance measures for commercial, industrial, and institutional water use on or before that date. Require an urban water supplier to calculate a water use target beginning the	07/11/2017 - In SENATE Committee on NATURAL RESOURCES AND WATER: Heard, remains in Committee.



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<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
			calendar year after the board adopts long-term standards for urban water conservation and water use. Relates to submission of specified information.	
<b><u>AB 1668</u></b> Friedman (D)	Water Management Planning	SUPPORT	Requires the State Water Resources Control Board to adopt long term standards for the efficient use of water and performance measures for certain water uses. Requires the Department to conduct necessary studies and investigations and authorizes them to recommend to the Legislature a standard for indoor residential water use. Imposes civil liability for a violation of an order or regulation issued pursuant to these provisions, as specified.	05/31/2018 - Signed by GOVERNOR.;05/31/2018 - Chaptered by Secretary of State. Chapter No. 2018-15
<b><u>AB 1740</u></b> Daly (D)	Budget Deficit Savings Account		Establishes the Budget Deficit Savings Account in the State Treasury, provides that funds in the reserve shall be available only for specified purposes, for appropriation by the Legislature in fiscal years in which there is a state budget deficit.	04/30/2018 - In ASSEMBLY. Joint Rule 62(a) suspended.
<b><u>AB 1745</u></b> Ting (D)	Vehicles: Clean Cars 2040 Act		Requires all new passenger vehicles to be zero emissions vehicles after a specified date. States that zero emissions vehicles cannot produce exhaust emissions of any criteria pollutant or greenhouse gas under any operational mode or condition. Exempts large commercial vehicles (larger than a specified number of pounds) and does not apply to vehicles owned by people moving into California from other states.	01/16/2018 - To ASSEMBLY Committee on TRANSPORTATION.
<b><u>AB 1748</u></b> Steinorth (R)	Property Taxation: Base Year Value Transfer		Amends existing law relating to the base year value of property that is eligible for the homeowner's exemption. Deems a replacement dwelling to be of equal or lesser value if the amount of the full cash value of that replacement dwelling does not exceed specified amounts based on the date of the sale of the original property relative to the purchase or new construction of the replacement dwelling.	05/14/2018 - In ASSEMBLY Committee on REVENUE AND TAXATION: Failed passage.

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<b><u>AB 1770</u></b> Steinorth (R)	Local Government: Investments		Revises the maximum 5-year maturity requirement regarding investment in securities by a local agency to instead require that the securities have a maximum remaining security of 5 years or less. Eliminates the requirement that the securities issuer be rated A or its equivalent or better for the issuer's debts as provided by an NRSRO.	05/03/2018 - To SENATE Committee on GOVERNANCE AND FINANCE.
<b><u>AB 1912</u></b> Rodriguez (D)	Public Employees' Retirement: Joint Powers Agreements		Specifies that if an agency to a joint powers agreement participates in a public retirement system, all parties are jointly and severally liable for all obligations to the retirement system. Prohibits the PERS Board of Administration from contracting with an agency formed under the Joint Exercise of Powers Act unless all the parties to that agreement are jointly and severally liable for all of the public agency's obligation to the system.	05/30/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 1945</u></b> Garcia E (D)	Greenhouse Gas Reduction Fund: Investment Plan		Require the State Air Resources Board to work with state agencies administering grant programs that allocate moneys from the Greenhouse Gas Reduction Fund to give specified communities preferential points during grant application, scoring for programs intended to improve air quality, to include a specified timeline for programs with competitive application processes.	05/30/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 1989</u></b> Mathis (R)	Water and Wastewater Loan and Grant Program		Appropriates a specified amount to the State Water Resources Control Board. Provides funding to eligible applicants for specified purposes relating to drinking water and wastewater treatment.	05/25/2018 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b><u>AB 1991</u></b> Mathis (R)	Safe Drinking Water State Revolving Fund		Requires the State Water Resources Control Board to post information on its internet web site regarding implementation of the Safe Drinking Water Revolving Fund Law and expenditures from the Fund.	03/15/2018 - To ASSEMBLY Committee on ENVIRONMENTAL SAFETY AND TOXIC MATERIALS.;03/15/2018 - From ASSEMBLY Committee on ENVIRONMENTAL SAFETY AND

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<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
				TOXIC MATERIALS with author's amendments.;03/15/2018 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on ENVIRONMENTAL SAFETY AND TOXIC MATERIALS.
<b><u>AB 2003</u></b> Daly (D)	Public Contracts: Sanitation Districts	SUPPORT	Relates to existing law which requires a sanitation district, when an expenditure for work exceeds a specified amount, to contract with the lowest responsible bidder after notice. Requires the notice to be published in a manner that the district board determines to be reasonable, which may include, but is not limited to, newspapers, Internet Web sites, radio, television, or other means of mass communication.	02/12/2018 - To ASSEMBLY Committee on LOCAL GOVERNMENT.
<b><u>AB 2017</u></b> Chiu (D)	Public Employers: Employee Organizations		Expands the definition of public employer to include those employers of excluded supervisory employees and judicial council employees. Includes in the definition of public employee those employees of a public transit agency with specified labor relation provisions. Prohibits a public employer from deterring or discouraging prospective public employees from becoming or remaining members of an employee organization.	05/03/2018 - To SENATE Committee on PUBLIC EMPLOYMENT AND RETIREMENT.
<b><u>AB 2038</u></b> Gallagher (R)	Countywide Drought and Water Shortage Contingency Plans		Requires the Department of Water Resources, in consultation with the State Water Resources Control Board and other relevant state and local agencies and stakeholders, to use available data to identify small water suppliers and rural communities that may be at risk of drought and water shortage vulnerability and requires the department to notify counties and groundwater sustainability agencies of those suppliers or communities.	02/16/2018 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.
<b><u>AB 2042</u></b> Steinorth (R)	Personal Income Tax Credits: Graywater Reuse Systems		Allows as a credit against the net personal income tax equal to a certain percent of the cost of installing a residential graywater reuse system in the taxpayer's residence located in the state. Limits the cumulative amount of the credit. Requires the	05/25/2018 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.

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<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
			Franchise Tax Board to receive and evaluate applications that are submitted by taxpayers to receive a residential graywater reuse system credit and to certify to the taxpayer the amount of the credit that is authorized.	
<b><u>AB 2050</u></b> Caballero (D)	Small System Water Authority Act of 2018	SUPPORT	Creates the Small System Water Authority Act to authorize the creation of small system water authorities to have powers to absorb, improve, and competently operate noncompliant public water systems. Requires the State Water Resources Control Board to provide certain notices to systems that are not compliant with drinking water standards.	05/30/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 2060</u></b> Garcia E (D)	Water: Grants: Advanced Payments		Requires the board, within 60 days of awarding a grant from the grant fund, to provide a project proponent that requests and demonstrates a need for advanced payment with advanced payment of \$500,000 or 50% of the grant award, whichever is less, for projects in which the project proponent is a nonprofit organization or a disadvantaged community, or the project benefits a disadvantaged community.	05/31/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 2064</u></b> Gloria (D)	Integrated Regional Water Management Plans: Grants		Requires require the department to provide a project proponent that requests and demonstrates a need for advanced payment with advanced payment for those projects of \$500,000 or 50% of the grant award, whichever is less. Eliminates the requirement that the grant award for the project be less than \$1,000,000 to obtain advanced payment.	05/30/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 2065</u></b> Ting (D)	Local Agencies: Surplus Land		Expands the definition of local agency to include sewer, water, utility, local and regional park districts, joint powers authorities, successor agencies to former redevelopment agencies, housing authorities, and other political subdivisions of this state that is empowered to acquire and hold real property, thereby requiring these entities to comply with the requirements for the disposal of	05/25/2018 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.

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			surplus land. Defines surplus land, dispose of, and priority for purposes of these provisions.	
<b>AB 2071</b> Bloom (D)	Government Immunity: Accessory Dwelling Units		Provides that the City of Los Angeles is not liable for an injury or for damage that has arisen from or is related to the use of an accessory dwelling unit and that is caused by any utility system, including, but not limited to, a water system or electrical system equipment, that the city designed, owns, operates, or maintains if the city has permitted the utility system equipment and the accessory dwelling unit or structure being converted to an accessory dwelling unit to remain in the same location.	05/30/2018 - To SENATE Committee on JUDICIARY.
<b>AB 2072</b> Quirk (D)	State Water Resources Control Board: Contaminants		Requires the State Water Resources Control Board to establish and maintain a dedicated program to research the potential effects of constituents of emerging concern in water sources on human and ecosystem health.	05/25/2018 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b>AB 2077</b> Limon (D)	Electricity: Local Government Renewable Energy Program		Requires an electrical corporation to negotiate in good faith with the County of Santa Barbara to construct and operate eligible renewable generating facilities sufficient to meet the local government's 100% renewables commitment. Requires that any mutually agreed upon rates and terms be submitted to the commission and would require the commission to approve the rates and terms if the commission determines them to be just and reasonable.	05/25/2018 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b>AB 2123</b> Cervantes (D)	California Voting Rights Act: District-Based Elections		Permits a political subdivision and a prospective plaintiff bringing an action under the state Voting Rights Act to enter into a written agreement to extend the time period during which a prospective plaintiff is prohibited from commencing an action for up to an additional specified amount of days in order to provide additional time to conduct public outreach, encourage public participation, and receive public input. Requires a schedule of the public outreach events be published on the subdivision web site.	05/24/2018 - To SENATE Committees on ELECTIONS AND CONSTITUTIONAL AMENDMENTS and JUDICIARY.

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<b><u>AB 2154</u></b> Bonta (D)	Public Employment: Labor Relations: Release Time		Prescribes requirements relating to release time that would apply to all of the public employers and employees subject to specified public employee acts and would generally repeal the provisions relating to release time in those acts. Prohibits the Public Employment Relations Board from enforcing these provisions with regard to public transit workers that are not otherwise subject to the board's jurisdiction.	04/02/2018 - From ASSEMBLY Committee on PUBLIC EMPLOYEES, RETIREMENT AND SOCIAL SECURITY with author's amendments.;04/02/2018 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on PUBLIC EMPLOYEES, RETIREMENT AND SOCIAL SECURITY.
<b><u>AB 2179</u></b> Gipson (D)	Municipal Corporations: Public Utility Service		Authorizes a municipal corporation to utilize the alternative procedures to lease, sell, or transfer that portion of a municipal utility used for furnishing sewer service outside the boundaries of the municipal corporation.	05/29/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 2241</u></b> Rubio (D)	The Open and Transparent Water Data Act	SUPPORT	Amends the Open and Transparent Water Data Act. Requires the Department of Water Resources to work to improve the open and transparent access to data by reducing the fractured or duplicative reporting of the same data to multiple governmental agencies and departments, and by reducing the reporting burden on entities providing data to governmental agencies.	05/25/2018 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b><u>AB 2242</u></b> Rubio (D)	Urban Water Management Planning		Amends the Urban Water Management Planning Act. Requires an urban water supplier, to include in its urban water management plan, an assessment of the reliability of its water service to its customers during normal, dry, and multiple dry years, including a repeat of consecutively historic driest years the urban water supplier has experienced.	06/04/2018 - In ASSEMBLY. To Inactive File.
<b><u>AB 2249</u></b> Cooley (D)	Public Contracts: Local Agencies: Alternative Procedure		Authorizes public projects of a specified amount or less to be performed by the employees of a public agency, authorize public projects of a specified amount or less to be let to contract by informal procedures, and require public projects of more than a	06/04/2018 - From SENATE Committee on GOVERNANCE AND FINANCE with author's amendments.;06/04/2018 - In

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			specified amount to be let to contract by formal bidding procedures.	SENATE. Read second time and amended. Re-referred to Committee on GOVERNANCE AND FINANCE.
<b>AB 2266</b> Bigelow (R)	Urban Water Management Plans: Adoption		Requires urban water suppliers to prepare and adopt urban water management plans within a specified number of years after becoming urban water suppliers.	03/15/2018 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.;03/15/2018 - From ASSEMBLY Committee on WATER, PARKS AND WILDLIFE with author's amendments.;03/15/2018 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on WATER, PARKS AND WILDLIFE.
<b>AB 2277</b> Mathis (R)	Solid Waste Facilities: Pharmaceutical Waste		Vests the Department of Resources Recycling and Recovery with the primary responsibility for the disposal of home-generated pharmaceutical waste and would require the Department of Resources Recycling and Recovery, in collaboration with the State Department of Public Health, the Department of Toxic Substances control, and the California State Board of Pharmacy, to adopt regulations authorizing the incineration of home-generated pharmaceutical waste by solid waste facilities.	03/01/2018 - To ASSEMBLY Committee on ENVIRONMENTAL SAFETY AND TOXIC MATERIALS.
<b>AB 2278</b> Berman (D)	Local Government Renewable Energy Self Generation		Amends the Local Government Renewable Energy Self Generation Program. Revises how the bill credit is calculated. Requires the electrical corporation to use the time of use periods and certain seasonal definitions. Requires a tariff approved by the commission as part of the program to remain in effect for the operating life of the associated eligible renewable generating facility. Repeals the requirement that when the last billing cycle of a 12-month period is reached, any remaining credit is reset to zero.	05/25/2018 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b>AB 2283</b> Holden (D)	Income Taxes: Exclusion: Turf Removal Program	SUPPORT	Extends the operation of existing law which provides an exclusion from gross income for any amount received as a rebate, voucher, or other financial incentive issued by a local	05/25/2018 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.

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			water agency or supplier for participation in a turf removal water conservation program.	
<b>AB 2341</b> Mathis (R)	California Environmental Quality Act		Specifies that, except as provided, the aesthetic effects of projects meeting certain requirements are not significant effects on the environment for the purposes of the California Environmental Quality Act and that the lead agency is not required to evaluate the aesthetic of those projects.	06/06/2018 - From SENATE Committee on ENVIRONMENTAL QUALITY: Do pass as amended.
<b>AB 2370</b> Holden (D)	Lead Exposure: Child Daycare Facilities		Requires, as a condition of licensure, the health and safety training to include instruction in the prevention of lead exposure as a part of the preventive health practices course or courses component. Requires a licensed child day care facility, upon enrolling or reenrolling a child receiving state-subsidized child care, to request that the child's parent or guardian provide the facility with documentation demonstrating that the child had received a blood lead screening test.	05/31/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b>AB 2371</b> Carrillo (D)	Water Use Efficiency: Landscape Irrigation		Amends existing law regulating the labeling of nursery stock. Requires, upon delivery to a job site, as defined, each landscape plant or a representative number of each landscape plant, as determined by the Secretary of Food and Agriculture, to be individually labeled as to its correct name in order to correctly identify nursery stock installed in outdoor landscapes that are subject to inspection under the Model Water Efficient Landscape Ordinance or any local water efficient landscape ordinance.	05/31/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b>AB 2379</b> Bloom (D)	Waste Management: Plastic Microfiber		Relates to toxic chemical enforcement. Requires that new clothing with a certain material composition bear a conspicuous label that is visible to the consumer in the form of a sticker, or any other label type, with a statement that the garment sheds plastic microfibers when washed. Requires additional information, including that same statement, on the care label of	06/04/2018 - In ASSEMBLY. To Inactive File.



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			such garments. Prohibits sales of such new clothing without those labels.	
<b><u>AB 2432</u></b> Obernalte (R)	California Voting Rights Act		Prohibits the courts under the California Voting Rights Act, from imposing district-based elections unless the plaintiff has established that district-based elections would remedy the dilution of abridgment of voting rights and that alternatives to district-based elections would not achieve greater voting rights and other benefits.	04/25/2018 - In ASSEMBLY Committee on ELECTIONS AND REDISTRICTING: Not heard.
<b><u>AB 2434</u></b> Bloom (D)	Strategic Growth Council; Health in All Policies		Establishes the Health in All Policies Program, to be administered by the Strategic Growth Council, for the purposes of incorporating health, equity, and sustainability considerations into decision making across sectors and policy areas.	05/29/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 2441</u></b> Frazier (D)	Sac San Joaquin Delta Abandoned Commercial Vessels		Amends existing law authorizing the State Lands Commission to recover costs relating to the removal of abandoned commercial vessels. Requires the Commission to deposit any moneys recovered from commercial vessel removal actions into the Sacramento San Joaquin Delta Abandoned Vessel Removal Account. Requires the Commission to develop a plan for the removal of abandoned and derelict commercial vessels using those moneys, as prescribed.	05/29/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 2447</u></b> Reyes (D)	California Environmental Quality Act: Land Use		Requires the Office of Environmental Health Hazard Assessment to publish a list of subject land uses and a map that identifies disadvantaged communities and areas within a certain distance of the disadvantaged communities. Requires a lead agency that is preparing an EIR or a negative declaration to provide certain notices to property owners and schools near any parcel or parcels on which there is a project involving a subject land use.	05/30/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.

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<b><u>AB 2464</u></b> Harper (R)	California Coastal Act: Port of Newport Beach		Relates to a port master plan for the port of Hueneme, Long Beach, Los Angeles, or San Diego Unified Port District located within the coastal zone. Applies this port master plan provision to the Port of Newport Beach located within the coastal zone, except as provided.	03/05/2018 - To ASSEMBLY Committee on NATURAL RESOURCES.
<b><u>AB 2470</u></b> Grayson (D)	Invasive Species		Establishes the Invasive Species Council of California, composed as prescribed, to help coordinate a comprehensive effort to prevent the introduction of invasive species in the state and to provide for the control or eradication of invasive species already established in the state. Establishes the Invasive Species Fund and, upon appropriation by the Legislature, moneys in the fund would be available for the purposes of funding invasive species projects.	05/30/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 2475</u></b> Ting (D)	State Owned Property: Sustainable Landscaping		Requires the Department of General Services to review, at least every 5 years, any existing regulations and practices for sustainability, energy efficiency, and water efficiency requirements for landscapes on state-owned real property to ensure those regulations and practices reflect the most current sustainability and efficiency standards available.	05/24/2018 - To SENATE Committee on GOVERNMENTAL ORGANIZATION.
<b><u>AB 2501</u></b> Chu (D)	Drinking Water: Consolidation and Extension of Service		Redefines disadvantaged community for purposes of the California Safe Drinking Water Act to also include a disadvantaged community that is served by a state small water system or domestic well. Authorizes the State Water Resources Control Board to order consolidation with a receiving water system where a disadvantaged community is reliant on domestic well that consistently fails to provide an adequate supply of safe drinking water.	05/29/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 2516</u></b> Eggman (D)	Dams: Reservoir Restrictions		Requires the Department of Water Resources to post, and update quarterly, on its Internet Web site a report containing the name of each reservoir subject to restriction, the effective date of the	05/10/2018 - To SENATE Committee on NATURAL RESOURCES AND WATER.

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			reservoir restriction, the reason for the restriction, and actions that would allow the restrictions to be removed, if no reservoir restrictions are in effect, would require the department to post this fact on its Internet Web site.	
<b><u>AB 2528</u></b> Bloom (D)	Climate Adaptation		Specifies that the biodiversity and habitat sector includes habitat resilience areas, as defined. Requires state agencies to maximize the objective of protecting and enhancing habitat resilience areas.	05/29/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 2541</u></b> Salas (D)	Safe Drinking Water State Revolving Fund		Relates to existing laws grant funding, and principal forgiveness and 0% financing on loans, from the Safe Drinking Water State Revolving Fund to a project for a water system with a service area that qualifies as a severely disadvantaged community. Authorizes the board, to the extent permitted by federal law, to provide up to 100% grant funding, and principal forgiveness and 0% financing on loans, from the Safe Drinking Water State Revolving Fund.	06/06/2018 - From SENATE Committee on ENVIRONMENTAL QUALITY: Do pass to Committee on APPROPRIATIONS.
<b><u>AB 2551</u></b> Wood (D)	Forest and Wildland Health Improvement		Requires the Department of Forestry and Fire Prevention to establish, implement, and administer the Forest and Wildland Health Improvement and Fire Prevention Program. Implements and administers programs that are intended to promote forest and wildland health, restoration, and resilience, and improve fire outcomes, prevention, and preparedness throughout the state. Authorizes the Department to enter into an agreement with a person to conduct joint prescribed burning operations, as specified.	05/30/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 2571</u></b> Gonzalez (D)	Public Employee Retirement Systems: Investments		Requires a public investment fund to require an alternative investment vehicle to report at least annually certain information concerning specified hospitality employers relating to race and gender pay equity and sexual harassment. Requires such fund to disclose race and gender pay equity and sexual harassment	04/18/2018 - In ASSEMBLY Committee on PUBLIC EMPLOYEES, RETIREMENT AND SOCIAL SECURITY: Not heard.

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			information provided to it in a report presented at a meeting open to the public.	
<b><u>AB 2649</u></b> Arambula (D)	Water Rights: Water Management		Requires the State Water Resources Control Board to prioritize a temporary permit for a project that enhances the ability of a local or state agency to capture water during high precipitation events for local storage or recharge. Provides that, consistent with permits or licenses, the diversion of water to underground storage constitutes a diversion of water for beneficial use, if the diverted water is put to beneficial use.	05/31/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 2697</u></b> Gallagher (R)	Wildlife, Bird, and Waterfowl Habitat		Requires the Wildlife Conservation Board to establish a program, which may include direct payments or other incentives, to encourage landowners to voluntarily cultivate or retain cover crops or other upland vegetation on idled lands to provide waterfowl, upland game bird, and other wildlife habitat cover for purposes, including, but not limited to, encouraging the use of idle agricultural lands for wildlife habitat.	05/31/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 2711</u></b> Chen (R)	Property Tax Revenue Allocations: County Of Orange	WATCH	Requires the auditor of the County of Orange to increase the total amount of ad valorem property tax revenue that is otherwise required to be allocated to the county by the county equity amount and to commensurately decrease the amount of ad valorem property tax revenue that is otherwise required to be allocated to the county Educational Revenue Augmentation Fund and, if necessary, the amount of those revenue otherwise required to be allocated to school districts.	05/25/2018 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b><u>AB 2728</u></b> Chen (R)	Replacement Of Corroded Or Lead-containing Plumbing		Authorizes the State Water Resources Control Board to establish a grant program to provide funding to a county or qualified nonprofit organization, as specified, to provide low-interest loans to defined property owners for the replacement of corroded or lead-containing plumbing and service lines that adversely impact	05/25/2018 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.

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<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
			drinking water standards for the installation of a point-of-use or point-of-entry water treatment system, as specified.	
<b><u>AB 2812</u></b> Limon (D)	Data Storage and Protection Standards: Local Agencies		Creates the Office of Local Cloud Migration and Digital Innovation in the Department of Technology. Requires the Office to promote the use of technologies including cloud based computing and data storage that will assist local agencies in their efforts to further transparency, efficiency, disaster preparedness and response, and general accessibility to the public. Requires the Office to partner with private industry and the nonprofit community to maximize the assistance provided to local agencies.	05/25/2018 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b><u>AB 2815</u></b> Gray (D)	Water Rights: Appropriations of Water		Makes nonsubstantive changes in provisions of the State Water Resources Control Board water rights program.	02/16/2018 - INTRODUCED.
<b><u>AB 2828</u></b> Friedman (D)	Waste Discharge Requirements: Oil and Gas Operations		Amends the Porter Cologne Water Quality Control Act. Authorizes a regional board to approve a waste discharge requirement for the use or reuse of produced water from an oil and gas operation for agriculture purposes or for groundwater recharge only if, after a public hearing, it finds that the Council on Science and Technology has reviewed the best available independent scientific evidence and has found the use will not pose a significant risk to the public from any contaminants.	04/17/2018 - From ASSEMBLY Committee on ENVIRONMENTAL SAFETY AND TOXIC MATERIALS with author's amendments.;04/17/2018 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on ENVIRONMENTAL SAFETY AND TOXIC MATERIALS.
<b><u>AB 2890</u></b> Ting (D)	Land Use: Accessory Dwelling Units	SEEK AMENDMENTS	Authorizes a local agency to provide by ordinance for the creation of accessory dwelling units in single-family and multifamily residential zones. Prohibits the imposition of lot coverage standards or requirements on minimum lot size, lot coverage, or floor area ratio. Prohibits an ordinance from establishing size requirements for accessory dwelling units that do not permit a certain minimum square foot unit of at least 16 feet in height to be constructed.	05/30/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.

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<b><u>AB 2898</u></b> Gloria (D)	Emergency Services: Local Emergencies		Requires a review of a local emergencies by the governing body of a city or county to occur at specified time intervals under the Emergency Services Act .	05/30/2018 - To SENATE Committee on GOVERNMENTAL ORGANIZATION.
<b><u>AB 2957</u></b> Gallagher (R)	Water: Institute for Water Innovation and Technology		Requests the Regents of the University of California to establish the California Institute for Water Innovation and Technology in order to achieve specified goals, including developing the state's next generation of water professionals and technicians and growing the state's economy by creating new opportunities for jobs in water research, management, and technology. Provides for the location of the Institute.	05/25/2018 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b><u>AB 2966</u></b> Aguiar-Curry (D)	Disaster Relief		Provides that the state share for the removal of dead and dying trees in connection with the Governor's proclamation of a state of emergency issued on a specified date is no more than 90 percent of total state eligible costs.	05/25/2018 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b><u>AB 2970</u></b> Cooper (D)	Public Employees: New Employee Orientations		Requires that the date, time, and place of a new employee orientation by a state or local public employer be confidential and not be shared with anyone other than employees, the exclusive representative, or a vendor that is contracted to provide a service for purposes of the orientation.	05/30/2018 - To SENATE Committees on PUBLIC EMPLOYMENT AND RETIREMENT and JUDICIARY.
<b><u>AB 2975</u></b> Friedman (D)	Wild and Scenic Rivers		Takes action to enact a statute that, upon enactment, would require the removal or delisting of any river or segment of a river in California that is included in the national wild and scenic rivers system and not in the state wild and scenic rivers. Requires the Secretary of the Natural Resources Agency, after holding a public hearing on the issue, based on the information obtained through the public hearing.	05/31/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 3027</u></b> Chavez (R)	California Environmental Quality Act: Attorney's Fees		Limits the awarding of attorney's fees to certain persons or entities for a prevailing party that is a plaintiff or petitioner in an	04/23/2018 - In ASSEMBLY Committee on NATURAL RESOURCES: Failed

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			action or proceeding under the California Environmental Quality Act.	passage.;04/23/2018 - In ASSEMBLY Committee on NATURAL RESOURCES: Reconsideration granted.
<b><u>AB 3031</u></b> Quirk (D)	Safety in Employment: Power Tools: Training		Requires an employer whose employees are involved in using power tools or other equipment for the cutting, grinding, coring, or drilling of concrete or masonry materials to provide specified training to those employees to reduce health hazards associated with the inhalation or ingestion of dust arising from those operations.	03/12/2018 - To ASSEMBLY Committee on LABOR AND EMPLOYMENT.
<b><u>AB 3037</u></b> Chiu (D)	Community Redevelopment Law		Amends the Community Redevelopment Law. Authorizes a city or county to propose the formation of a redevelopment housing and infrastructure agency by adoption of a resolution of intention that meets specified requirements, including a passthrough provision and an override passthrough provision. Requires the city or county to submit that resolution to each affected taxing entity. Requires the Strategic Growth Council to provide technical assistance to a city or county desiring to form an agency.	05/25/2018 - In ASSEMBLY. Joint Rule 62(a) suspended.;05/25/2018 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b><u>AB 3045</u></b> Gallagher (R)	Natural Resources Agency: State Water Project		Establishes within the Natural Resources Agency the State Water Project Commission, consisting of 9 members appointed by the Governor and subject to confirmation by the Senate, including one member nominated by the Butte County Board of Supervisors. Imposes a new duty on the Butte County Board of Supervisors, the bill would impose a state-mandated local program.	05/25/2018 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b><u>AB 3155</u></b> Cooper (D)	Public Works: Definition		Expands the meaning of the term public works for purposes of requirements regarding the payment of prevailing wages, to include warranty work, and would include warranty work within the definition of construction as it is used to define "public works".	03/12/2018 - To ASSEMBLY Committee on LABOR AND EMPLOYMENT.

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<b><u>AB 3170</u></b> Friedman (D)	Sales and Use Taxes: Exemptions: Water Efficiency	SUPPORT	Exempts from sales and use taxes the gross receipts from the sale of, and the storage, use, or other consumption of, qualified water efficiency products sold or purchased during a certain period of time, or for which a layaway agreement is entered into, a raincheck is issued, or other specified orders are placed, during this period until a specified date.	05/25/2018 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.
<b><u>AB 3187</u></b> Grayson (D)	Biomethane: Gas Corporations: Rates		Replaces the requirement that this consideration be made before expiration of the program, to instead require the commission to open a proceeding to consider those options by no later than July 1, 2019.	05/25/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 3206</u></b> Friedman (D)	Water Conservation: Water Meters: Accuracy		Requires the State Energy Resources Conservation and Development Commission to adopt rules for urban retail water supplier performance standards and to adopt protocols to be used by such supplier for the regular sampling and testing of its customers' service meters to ensure accuracy.	05/30/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 3222</u></b> O'Donnell (D)	Public Works: Prevailing Wages		Expands the definition of public works, for the purposes of provisions relating to the prevailing rate of per diem wages, to also include any construction, alteration, demolition, installation, or repair work done under private contract on a project for a charter school, as defined, when the project is paid for, in whole or in part, with the proceeds of conduit revenue bonds, as defined, that were issued on or after a specified date.	05/31/2018 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.
<b><u>AB 3253</u></b> Banking and Finance Cmt	Local Government: Financial Affairs		Increases the percentage of a local agency's funds that can be invested of the agency's surplus funds in deposits at specified types of financial institutions that use a private sector entity to assist in the placement of deposits and in certificates of deposit at specified types of financial institutions.	04/10/2018 - From ASSEMBLY Committee on LOCAL GOVERNMENT with author's amendments.;04/10/2018 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on LOCAL GOVERNMENT.



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<b><u>AB 3254</u></b> Local Government Cmt	Local Government Organization: Omnibus		Revises the definitions of affected territory and inhabited territory under the Local Government Reorganization Act of 2000 to include territory that is to receive extended services from a local agency, and additionally defines the term uninhabited territory for purposes of the Act.	05/30/2018 - To SENATE Committee on GOVERNANCE AND FINANCE.
<b><u>ACA 24</u></b> Waldron (R)	Property Taxation: Transfer of Base Year Value		Requires the Legislature to provide for the transfer of base year value of property that is substantially damaged or destroyed by a disaster, as declared by the Governor, occurring on or after a specified date through a specified date, to comparable property located within the same or a different county that is acquired or newly constructed as a replacement for the substantially damaged or destroyed property.	02/14/2018 - INTRODUCED.
<b><u>ACA 28</u></b> Mathis (R)	Water: Projects: Funding		Provides that, from specified state revenues, there shall be set apart, in unspecified percentages, moneys to be applied by the state for the payment of principal and interest on bonds authorized pursuant to the Water Quality, Supply, and Infrastructure Improvement Act of 2014 and, of the amount remaining, for specified water projects of the Department of Water Resources and the State Water Resources Control Board.	02/26/2018 - INTRODUCED.
<b><u>AJR 38</u></b> Mathis (R)	Dams and Reservoirs: Federal Jurisdiction: Safety		Urges Congress to implement revised dam safety and inspection requirements, with specified components, for all federally operated and regulated dams and reservoirs for the purpose of ensuring public safety.	05/24/2018 - Chaptered by Secretary of State.;05/24/2018 - Resolution Chapter No. 2018-76
<b><u>SB 24</u></b> Portantino (D)	Political Reform Act of 1974: Economic Interest		Amends the Political Reform Act which requires certain disclosures to include a statement indicating the fair market value of investments or interests in real property and the aggregate value of income received from each reportable source. Revises the dollar amounts associated with these ranges.	08/31/2017 - In ASSEMBLY. To Inactive File.

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<b>SB 49</b> de Leon (D)	Environmental and Workers' Defense Act		Relates to the California Environmental, Public Health, and Workers Defense Act of 2017. Relates to clean air, drinking water, discharge of pollutants into the atmosphere and waters, and endangered species. Requires specified agencies to take prescribed actions to maintain and enforce standards pertaining to air, water, and protected species. Prohibits a state agency from amending rules to be less stringent in protection of workers' rights and workers' safety than established by federal law.	09/12/2017 - From ASSEMBLY Committee on RULES with author's amendments.;09/12/2017 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on RULES.
<b>SB 80</b> Wieckowski (D)	California Environmental Quality Act: Notices		Amends the California Environmental Quality Act. Requires a lead agency to post certain notices on the agency's Internet Web site and to offer to provide those notices by e-mail. Requires a county clerk to post notices regarding an environmental impact report or a negative declaration on the county's Internet Web site. Requires the filing of a notice in certain cases.	10/15/2017 - Vetoed by GOVERNOR.
<b>SB 210</b> Leyva (D)	Heavy Duty Vehicle Inspection and Maintenance Program		Authorizes the State Air Resources Board to develop and implement a Heavy-Duty Vehicle Inspection and Maintenance Program for nongasoline heavy-duty on road motor vehicles. Authorizes the state board to assess a fee and penalty as part of the program. Creates the Truck Emission Check Fund and the Diesel Emission System Inspection and Smoke Test Account in the fund, with all the moneys deposited in each fund to be available upon appropriation.	04/18/2018 - Re-referred to ASSEMBLY Committee on TRANSPORTATION.
<b>SB 224</b> Jackson (D)	Personal Rights: Sexual Harassment		Amends existing law which establishes liability for sexual harassment when the plaintiff proves specified elements and existing law which states that a relationship may exist between a plaintiff and certain persons. Includes an investor, elected official, lobbyist, director, and producer among those listed persons who may be liable to a plaintiff for sexual harassment.	01/22/2018 - In SENATE. Read third time. Passed SENATE. *****To ASSEMBLY.
<b>SB 473</b> Hertzberg (D)	California Endangered Species Act		Amends the California Endangered Species Act which prohibits the taking of an endangered or threatened species. Provides that	09/08/2017 - In ASSEMBLY. To Inactive File.

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			the accidental take of candidate, threatened, or endangered species resulting from acts that occur on a farm or a ranch in the course of otherwise lawful routine and ongoing agricultural activities is not prohibited by the act.	
<b>SB 606</b> Hertzberg (D)	Water Management Planning	SUPPORT	Requires an urban retail water supplier to calculate an urban water use objective and its actual urban water use by specified dates and requires a report. Authorizes the Department of Water Resources to waive these requirements for a maximum number of years. Imposes a civil liability for a violation of an order or regulation. Amends the Urban Water Management Planning Act. Provides certain requirements imposed on urban water suppliers.	05/31/2018 - Signed by GOVERNOR.;05/31/2018 - Chaptered by Secretary of State. Chapter No. 2018-14
<b>SB 623</b> Monning (D)	Water Quality: Safe and Affordable Drinking Water Fund	OPPOSE	Establishes the Safe and Affordable Drinking Water Fund in the State Treasury and would provide that moneys in the fund are continuously appropriated to the state board. requires the state board to expend moneys in the fund for grants, loans, contracts, or services to assist eligible applicants with projects relating to safe and affordable drinking water.	09/01/2017 - Re-referred to ASSEMBLY Committee on RULES.
<b>SB 771</b> de Leon (D)	California Environmental Quality Act		Relates to The California Environmental Quality Act. Establishes a continuing education requirement for employees of public agencies who have primary responsibility to administer the act.	09/13/2017 - In ASSEMBLY. To Inactive File.
<b>SB 778</b> Hertzberg (D)	Safe Drinking Water Fund		Requires the State Water Resources Control Board to track and publish on its Internet Web site an analysis of all voluntary and ordered consolidations of water systems that have occurred on or after a certain date. Requires the published information to include the resulting outcomes of the consolidations and whether the consolidations have succeeded or failed in providing an adequate supply of safe drinking water to the communities served by the consolidated water systems.	09/01/2017 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.

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<b><u>SB 831</u></b> Wieckowski (D)	Land Use: Accessory Dwelling Units	SEEK AMENDMENTS	Requires the local agency ordinance for the creation of accessory dwelling units to designate areas where accessory dwelling units may be excluded for health and safety purposes. Revises the standards for the local ordinance to delete the authority to include lot coverage standards. Prohibits certain considerations by local agencies when deciding whether or not to approve an application.	05/30/2018 - In SENATE. Read third time. Passed SENATE. *****To ASSEMBLY.
<b><u>SB 919</u></b> Dodd (D)	Water Resources: Stream Gages		Requires the Department of Water Resources to develop a plan to deploy a network of stream gages that includes a determination of funding needs and opportunities for reactivating existing gages. Requires the Department develop the plan to address significant gaps in information necessary for water management. Requires the Department to give priority in the plan to placing or reactivating stream gages where lack of data contributes to conflicts in water management actions.	05/29/2018 - In SENATE. Read third time. Passed SENATE. *****To ASSEMBLY.
<b><u>SB 952</u></b> Anderson (R)	Water Conservation: Local Water Supplies		States the intent of the Legislature to enact legislation that would require the State Water Resources Control Board to recognize local water agency investment in water supply and ensure that local agencies receive sufficient credit for these investments in meeting any water conservation or efficiency mandates.	02/08/2018 - To SENATE Committee on RULES.
<b><u>SB 963</u></b> Allen (D)	Water Replenishment Districts		Repeals a reserve fund authorization for a water replenishment district. Requires financial statements to be submitted to the appropriate policy committees of the Legislature instead of the Legislature generally.	06/04/2018 - From ASSEMBLY Committee on LOCAL GOVERNMENT with author's amendments.;06/04/2018 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on LOCAL GOVERNMENT.
<b><u>SB 966</u></b> Wiener (D)	Onsite Treated Nonpotable Water Systems		Requires the State Water Resources Control Board, in consultation with the California Building Standards Commission, to adopt regulations for risk based water quality standards for the onsite treatment and reuse of nonpotable water. Authorizes the Board to contract with public or private entities regarding the	05/31/2018 - In SENATE. Read third time. Passed SENATE. *****To ASSEMBLY.

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			content of the standards and exempts those contracts from review and approval of the Department of General Services.	
<b><u>SB 998</u></b> Dodd (D)	Discontinuation of Residential Water Service	OPPOSE UNLESS AMENDED	Amends the Safe Drinking Water Act. Prohibits residential water service from being disconnected under specified circumstances. Requires an urban and community water system that furnishes individually submetered residential service to inform the residential occupants by written notice that service will be terminated and that the residential occupants have the right to become customers. Requires compliance on or after a specified date.	05/29/2018 - In SENATE. Read third time. Passed SENATE. *****To ASSEMBLY.
<b><u>SB 1032</u></b> Moore (R)	California Public Employees' Retirement System		Authorizes a contracting agency to terminate its contract with the Board of Administration of the Public Employees' Retirement System the agency's will and would not require the contracting agency to fully fund the board's pension liability upon termination of the contract. Authorizes the board to reduce the member's benefits in the terminated agency pool by the percentage of liability unfunded.	04/23/2018 - In SENATE Committee on PUBLIC EMPLOYMENT AND RETIREMENT: Failed passage.;04/23/2018 - In SENATE Committee on PUBLIC EMPLOYMENT AND RETIREMENT: Reconsideration granted.
<b><u>SB 1033</u></b> Moore (R)	Public Employees Retirement: Reciprocal Benefits		Requires an agency participating in the Public Employees' Retirement System, that increases the compensation of a member who was previously employed by a different agency, to bear all actuarial liability for the action, if it results in an increased actuarial liability beyond what would have been reasonably expected for the member. Requires the increased liability be in addition to reasonable compensation growth that is anticipated for a member who works for employer or employers over an extended time.	04/23/2018 - In SENATE Committee on PUBLIC EMPLOYMENT AND RETIREMENT: Heard, remains in Committee.
<b><u>SB 1147</u></b> Hertzberg (D)	Offshore Oil and Gas Wells		Requires the State Oil and Gas Supervisor to evaluate and estimate the costs associated with the decommissioning of offshore oil and gas wells under its jurisdiction before a specified date. Requires the Supervisor to develop a schedule to increase	06/07/2018 - To ASSEMBLY Committee on NATURAL RESOURCES.

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			the bond amounts or other financial surety provided by an operator. Establishes the Offshore Infrastructure Decommissioning Fund. Requires the State Lands Commission to expend moneys to finance the costs of well plugging and abandonment.	
<b><u>SB 1167</u></b> Anderson (R)	Eminent Domain: Final Offer of Compensation		Provides that if a court finds, on motion of a defendant that a plaintiff's offer was lower than a specified percentage of the compensation awarded in the proceeding, then the court would be required to include the defendant's litigation costs in the costs allowed.	05/08/2018 - In SENATE Committee on JUDICIARY: Failed passage.
<b><u>SB 1215</u></b> Hertzberg (D)	Provision of Sewer Service: Disadvantaged Communities		Authorizes the State Water Resources Control Board to order the provision of sewer service by a special district, city, or county to a disadvantaged community, under specified circumstances. Authorizes the Board to take certain actions before ordering the provision of sewer service similar to those required for the consolidation or extension of water. Authorizes the Board to develop a process by which members of disadvantaged communities may petition for sewer service.	05/29/2018 - In SENATE. Read third time. Passed SENATE. *****To ASSEMBLY.
<b><u>SB 1226</u></b> Bates (R)	Building Standards: Building Permits		Amends the State Building Standards Law. Requires the Department to propose the adoption of a building standard to the State Building Standards Commission pursuant to existing law that would authorize, when a record of the issuance of a building permit for the construction of an existing residential unit does not exist, enforcement officials to determine when the residential unit was constructed and issue a retroactive permit.	05/31/2018 - In SENATE. Read third time. Passed SENATE. *****To ASSEMBLY.
<b><u>SB 1284</u></b> Jackson (D)	Employers: Annual Report: Pay Data		Requires that, on or before a certain date, annually, a private employer that has a certain number of employees is to submit a pay data report to the Department of Industrial Relations. Requires the Department to make the report available to certain agencies upon request. Imposes specified civil penalties on any	05/31/2018 - In SENATE. Read third time. Passed SENATE. *****To ASSEMBLY.

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			employer not in compliance. Makes it unlawful for any officer or employee of the Department to make public any individually identifiable information obtained from such report.	
<b><u>SB 1301</u></b> Beall (D)	State Permitting: Environment: Processing Procedures		Requires the Office of Planning and Research to develop a joint multiagency preapplication and a model fee-for-service agreement, in consultation with a state agency with the power to issue a permit that would authorize a dam safety project or authorize a flood risk reduction project and any interested potential project applicants.	05/30/2018 - In SENATE. Read third time. Passed SENATE. *****To ASSEMBLY.;05/30/2018 - In SENATE. Read third time. Passed SENATE. *****To ASSEMBLY.
<b><u>SB 1364</u></b> Vidak (R)	Safe, Clean, Reliable Water Supply Act		Makes a nonsubstantive change in findings and declarations of the Safe, Clean, Reliable Water Supply Act.	03/08/2018 - To SENATE Committee on RULES.
<b><u>SB 1422</u></b> Portantino (D)	Safe Drinking Water Act: Microplastics		Requires the State Water Resources Control Board to adopt regulations requiring annual testing for and reporting of the amount of microplastics in drinking water, including public disclosure of those results.	05/31/2018 - In SENATE. Read third time. Passed SENATE. *****To ASSEMBLY.
<b><u>SB 1433</u></b> Moorlach (R)	County Deferred Retirement Option Program		Prohibits a county or district from allowing a member to participate in a Deferred Retirement Option Program who was not participating in the program on or before a specified date. Prohibits a county or district from establishing a new or additional Deferred Retirement Option Program.	04/23/2018 - In SENATE Committee on PUBLIC EMPLOYMENT AND RETIREMENT: Failed passage.;04/23/2018 - In SENATE Committee on PUBLIC EMPLOYMENT AND RETIREMENT: Reconsideration granted.
<b><u>SB 1469</u></b> Skinner (D)	Land Use: Accessory Dwelling Units	SEEK AMENDMENTS	Revises and recast the above-described provisions regarding accessory dwelling units to authorize the ordinance adopted for the creation of accessory dwelling units to designate areas where accessory dwelling units are excluded for health and safety purposes based on clear findings supported by substantial evidence. Limits the types of standards that a local agency may impose on accessory dwelling units, including parking, height,	05/25/2018 - In SENATE Committee on APPROPRIATIONS: Held in committee.

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			size, and setback requirements, and would revise certain standards.	
<b>SB 1496</b> Governance and Finance Cmt	Validations		Enacts the Second Validating Act. Validates the organization, boundaries, acts, proceedings, and bonds of the state and counties, cities, and specified districts, agencies, and entities.	06/01/2018 - Signed by GOVERNOR.;06/01/2018 - Chaptered by Secretary of State. Chapter No. 2018-23
<b>SB 1497</b> Governance and Finance Cmt	Validations		Enacts the First Validating Act. Validates the organization, boundaries, acts, proceedings, and bonds of the state and counties, cities, and specified districts, agencies, and entities.	06/01/2018 - Signed by GOVERNOR.;06/01/2018 - Chaptered by Secretary of State. Chapter No. 2018-24
<b>SB 1498</b> Governance and Finance Cmt	Local Government Omnibus Act		Amends existing law requiring the Controller to report financial information about selected special districts. Eliminates the requirement that the report contain specified breakdowns of each special district's fund balance, retained earnings, fixed assets, and cash investments. Specifies the time frame for the filing of a test claim based on the date of incurring increased costs. Authorizes the display of a report to the Commission by providing a link to the Treasurer website relating to bond info.	05/25/2018 - To ASSEMBLY Committee on LOCAL GOVERNMENT.
<b>SB 1499</b> Governance and Finance Cmt	Validations		Enacts the Third Validating Act.. Validates the organization, boundaries, acts, proceedings, and bonds of the state and counties, cities, and specified districts, agencies, and entities.	06/01/2018 - Signed by GOVERNOR.;06/01/2018 - Chaptered by Secretary of State. Chapter No. 2018-25
<b>SB 1502</b> Environmental Quality Cmt	Nonvehicular Air Pollution		Authorizes air districts to send electronically instead of by mail any required public notice and other certain notices. Requires air districts to send a public notice by mail to any person who has requested the notices to be sent by mail. Requires an air district governing board, if the air district opts to send public notices electronically, to adopt procedures for a person to request public notices to be sent by mail.	05/07/2018 - To ASSEMBLY Committee on NATURAL RESOURCES.
<b>SCA 4</b> Hertzberg (D)	Water Conservation		Declares the intent of the Legislature to amend the California Constitution to provide a program that would ensure that	02/16/2017 - To SENATE Committee on RULES.



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<b>Bill No. Author</b>	<b>Title</b>	<b>IRWD Position</b>	<b>Summary/Effects</b>	<b>Status</b>
			affordable water is available to all Californians and to ensure that water conservation is given a permanent role in California's future.	
<b><u>SCA 18</u></b> Allen (D)	Elections: Recalls		Increases the vote required to recall a state officer.	05/25/2018 - In SENATE Committee on APPROPRIATIONS: Not heard.
<b><u>HR 23</u></b> Valadao (R)	Gaining Responsibility on Water Act		Amends the Gaining Responsibility on Water Act of 2017, provides drought relief in the State of California.	07/18/2017 - In SENATE. Read second time.;07/18/2017 - To SENATE Committee on ENERGY AND NATURAL RESOURCES.

## Exhibit “B”

2018 Legislative Update Report:  
Links to Bill & Regulatory Texts  
(as of June 7, 2018)

Bill Number/Version Date	Link to Bill Text
AB 1912 (Rodriguez), as amended	<a href="http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180AB1912">http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180AB1912</a>
AB 2050 (Caballero), as amended	<a href="http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180AB2050">http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180AB2050</a>
AB 2501 (Chu), as amended	<a href="http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180AB2501">http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180AB2501</a>
AB 3206 (Friedman), as amended	<a href="http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180AB3206">http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180AB3206</a>
SB 623 (Monning), as amended	<a href="http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180SB623">http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180SB623</a>
SB 998 (Dodd), as amended	<a href="http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180SB998">http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180SB998</a>
SB 1215 (Hertzberg),	<a href="http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180SB1215">http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180SB1215</a>
“Safe and Affordable Drinking Water” Budget Trailer Bill	<a href="http://dof.ca.gov/Budget/Trailer_Bill_Language/documents/SafeandAffordableDrinkingWater.pdf">http://dof.ca.gov/Budget/Trailer_Bill_Language/documents/SafeandAffordableDrinkingWater.pdf</a>
“Water Supply and Water Quality Act of 2018”	<a href="https://waterbond.org/wp-content/uploads/2017/10/Water-Supply-and-Water-Quality-Act-of-2018.pdf">https://waterbond.org/wp-content/uploads/2017/10/Water-Supply-and-Water-Quality-Act-of-2018.pdf</a>

# Funding Alternatives to the Proposed Tax on Drinking Water

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## Introduction

The Association of California Water Agencies (ACWA)-led "Oppose-Unless-Amended" coalition agrees on the intent of SB 623 (Monning) and the Administration's budget trailer bill, which would establish a fund to assist those who do not have access to safe drinking water. The proposed tax on drinking water, however, is not the right solution. The following are credible funding alternatives to the proposed tax on drinking water and a tool to help improve safe drinking water.

## Funding Alternatives

### 1. Current "Oppose Unless Amended" Coalition Funding Proposal

The first alternative to the proposed drinking water tax is the Safe Drinking Water Funding Package, which is the current funding proposal by the coalition. This funding package is comprised of ongoing federal safe drinking water funds, general obligation bond funds, the assessments related to nitrates in groundwater proposed in the budget trailer bill and SB 623, and a limited amount of state general fund dollars. (Attachment 1)

### 2. Safe and Affordable Drinking Water Trust

The creation of an irrevocable trust is the second alternative. The trust would be held for the sole purpose of providing funding for safe and affordable drinking water. (Attachment 2)

### 3. Lease Revenue Bonds for Safe Drinking Water

The third alternative is lease revenue bonds issued for safe drinking water. (Attachment 3)

### 4. Cap and Trade Allocation for Safe Drinking Water

The fourth alternative is to allocate a percentage of Cap and Trade funding via continuous appropriation for safe drinking water. (Attachment 4)

## Other Tools

### 1. Governance Solution

AB 2050 (Caballero, 2018), the Small System Water Authority Act of 2018, would propose a local solution for consolidation of non-compliant public water systems based on regional governance and administration.

Contact: Cindy Tuck, ACWA, [cindy@acwa.com](mailto:cindy@acwa.com), (916) 441-4545

## Funding Alternative #1 to the Proposed Tax on Drinking Water

### Safe Drinking Water Funding Package

<u>Funding Source</u>	<u>Funding Type</u>	<u>Funding Amount</u>
Safe Drinking Water State Revolving Funding (Federal)	Capital	<u>Part of \$81 million<sup>1</sup></u>
General Obligation Bonds	Capital	Proposition 68 <u>\$250 million<sup>2</sup></u> and/or Water Supply/Quality Bond: <u>\$500 million<sup>3</sup></u>
<b>BUDGET TRAILER BILL / SB 623 (Monning)</b>		
Nitrate Assessment	Nitrate: • Replacement Water • Point of Use Treatment • Point of Entry Treatment	Approximately <u>\$30 million per year</u>
General Fund	Operation and Maintenance for Public Water Systems	Approximately <u>\$34.44 million per year<sup>4</sup></u>

<sup>1</sup> \$81 million is estimated SDW SRF Total for California for 2018. Part of this would go to capital costs for disadvantaged communities

<sup>2</sup> For both safe drinking water and clean water

<sup>3</sup> For safe drinking water

<sup>4</sup> State Water Board's estimate for annual non-nitrate O&M costs for public water systems

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## Funding Alternative #2 to the Proposed Tax on Drinking Water in the Budget Trailer Bill

### Irrevocable Safe and Affordable Drinking Water Trust

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The establishment of an Irrevocable Safe and Affordable Drinking Water Trust is a viable alternative to a tax on drinking water because it could provide a stable and perpetual source of funding. The Irrevocable Safe and Affordable Drinking Water Trust could provide a targeted amount of revenue each year into perpetuity to fund safe drinking water solutions for disadvantaged communities and low-income residents. For example, the targeted annual funding generated from the trust could be \$50 million per year.

In general, an irrevocable trust is a mechanism into which an entity or person (the grantor) places assets for the benefit of a designated beneficiary. Once the grantor places the assets into an irrevocable trust, the assets cannot be removed. Instead, the trust assets, which comprise the trust's principal, are managed by a trustee who invests the principal and make distributions from the trust for the benefit of the beneficiary. Trustees have fiduciary duties, responsibilities and obligations to trust beneficiaries.

One type of irrevocable trust is a charitable trust. A charitable trust is a trust designed to advance a charitable or governmental purpose. In the case of the Irrevocable Safe and Affordable Drinking Water Trust, the trust would be created as an irrevocable charitable trust designed to advance the governmental purpose of providing a continual source of funding for drinking water solutions for disadvantaged communities and low-income residents which currently do not have access to safe drinking water. The primary purpose of the Irrevocable Safe and Affordable Drinking Water Trust would be to provide a perpetual source of funding of at least \$50 million dollars each year to the Safe and Affordable Drinking Water Fund.

#### **How the Irrevocable Trust Would Work:**

- 1) The Irrevocable Safe and Affordable Drinking Water Trust Fund would be established in the State Treasury and be designated as the fund which would hold the funds placed into the Irrevocable Safe and Affordable Drinking Water Trust.
- 2) To generate \$50 million per year, the one-time sum of \$725 million would be irrevocably transferred in Fiscal Year 2018-19 from the General Fund to the Irrevocable Safe and Affordable Drinking Water Trust Commission (the Commission) for deposit in the Irrevocable Safe and Affordable Drinking Water Trust Fund. This funding would serve as the trust's principal. (The \$725 million amount is based on an assumption of a 6.5 percent annual rate of return.)

- 3) The Commission would serve as the trustee for the trust and would consist of 3 members and would be comprised of the State Treasurer, the Lieutenant Governor and the State Controller.
- 4) The Commission would invest the trust principal. If the net income earned by the trust during the previous fiscal year is less than or equal to \$50 million, the trustee would deposit the entire value of the net income into the Safe and Affordable Drinking Water Fund for the benefit of the trust's beneficiary.
- 5) If the net income earned by the trust during the previous fiscal year was greater than \$50 million, the trustee would deposit \$50 million into the Safe and Affordable Drinking Water Fund and would split the remaining portion of the net income between the Safe and Affordable Drinking Water Fund and the trust principal. Increasing the size of the trust principal would enable the trust to generate more money annually for transfer to the Safe and Affordable Drinking Water Fund.
- 6) The trustee and others would be statutorily restricted from drawing down the trust principal.

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## Funding Alternative #3 to the Proposed Tax on Drinking Water in the Budget Trailer Bill

### Lease Revenue Bonds for Safe Drinking Water

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During the height of the budget crisis in 2008, the Legislature authorized the issuance of Lease Revenue Bonds through AB 900 to pay for a variety of costs related to the building of new prisons. A Lease Revenue Bond (LRB) can be generally described as a loan made to the State that is repaid by revenue generated by the project.

Under AB 900, the state envisioned that the Department of Public Works would design and build the prison and incur the debt, and the Department of Corrections would generate the "revenue" to repay the debt. In the case of AB 900, the "revenue" was a transfer of money between two government agencies, and the money came from the General Fund.

Based on a presentation provided by the Treasurer's office on their website, the issuer of an LRB – in this case the State - covenants to appropriate annual lease payments from the General Fund to meet the lease obligations. In this proposal, there would be a commitment of the new revenue from the agricultural taxes proposed in the bill, and revenue would ultimately be deposited in the General Fund. The financial instrument would be structured as lease revenue bonds or "certificates of participation" ("COPs") that are not subject to constitutional debt limits per a lease exception. Unlike General Obligation bonds, no voter approval of the bond issuance is required. Of course, the disadvantage is that the debt payments compete with other General Fund priorities.

These types of bonds are often used for projects of general community benefit and to indirectly leverage a General Fund revenue stream. These bonds are often used to provide "credit enhancement" for less credit-worthy borrowing for desired "risk sharing." Under the LRB alternative financing concept, the State Water Resources Control Board would ask the Board of Public Works to issue Revenue Bonds up to an amount to be determined. The proceeds from the bonds could be used to fund operation and maintenance costs. Capital projects could be constructed with the use of ongoing federal funds and General Obligation bond funding. The debt for the bonds would be securitized by the ongoing cash flow from the agricultural taxes in the budget trailer bill along with a one-time appropriation of General Fund money into a special account –the ultimate guarantor would be the General Fund. All of the funds would be continuously appropriated to pay off the debt obligations.

By the issuance of the LRBs that would be securitized with the already-proposed agricultural tax revenues, this approach ensures that the money would only be spent for the desired purpose.



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## Funding Alternative #4 to the Proposed Tax on Drinking Water in the Budget Trailer Bill

### Cap-and-Trade Allocation for Safe Drinking Water

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In 2017, the Legislature passed, and Governor Brown signed into law, AB 398 (Garcia) which extended the State's authority to operate a Cap-and-Trade program through 2030. AB 398 passed by a two-thirds vote which was significant in the context of Proposition 26 requirements.

The Cap-and-Trade program generates revenue annually from the sale of allowances to entities which emit greenhouse gas (GHG) emissions and which need the allowances to continue to emit GHG emissions. By reducing the number of allowances issued over time, the State limits the ability of emission sources to continue emitting. The Legislative Analyst's Office (LAO) has estimated that the program will bring in anywhere from \$2 to \$7 billion annually between 2018 and 2030.

The Governor's Proposed Budget for Fiscal Year 2018-19 includes a \$2.8 billion Cap-and-Trade expenditure plan. \$1.3 billion of this amount is "discretionary" spending which is not subject to continuous appropriation. A small portion of this revenue could be appropriated with a majority vote to fund drinking water solutions for disadvantaged communities and low-income residents who do not have access to safe drinking water. Revenue from the program could also be used to supplement or backstop any other alternative proposal.

Providing clean drinking water to disadvantaged communities is consistent with the historic emphasis on using Cap-and-Trade revenue to benefit these communities. It would also help eliminate the need for some of these communities to rely on the transportation of bottled water or shipped water in order to have access to safe drinking water – thereby resulting in a reduction of GHG emissions.



June 25, 2018

Prepared by: J. Davis/T. Fournier

Submitted by: R. Jacobson/C. Clary

Approved by: Paul A. Cook

## CONSENT CALENDAR

### MAY 2018 TREASURY REPORTS

#### SUMMARY:

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

- A. The Investment Summary Report for May 2018. This Investment Summary Report is in conformity with the 2018 Investment Policy and provides sufficient liquidity to meet estimated expenditures during the next six months, as outlined in Exhibit "A".
- B. The Summary of Fixed and Variable Debt as of May 31, 2018, as outlined in Exhibit "B".
- C. The Monthly Interest Rate Swap Summary as of May 31, 2018, as outlined in Exhibit "C".
- D. The May 31, 2018 Disbursement Summary of warrants 387443 through 388468, wire transfers, Workers' Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$14,875,476 as outlined in Exhibit "D".
- E. The Summary of Payroll ACH payments in the total amount of \$1,863,936, as outlined in Exhibit "E".
- F. The Disclosure Report of Reimbursements to Board Members and Staff for May 2018, detailing payments or reimbursements for individual charges of \$100.00 or more per transaction, as outlined in Exhibit "F".

#### FISCAL IMPACTS:

As of May 31, 2018, the book value of the investment portfolio was \$377,844,386, with a 1.36% rate of return and a market value of \$374,849,027. Based on the District's March 31, 2018 quarterly real estate investment rate of return of 8.91%, the weighted average return for the fixed income and real estate investments was 3.55%.

As of May 31, 2018, the outstanding principal amount of fixed and variable rate debt was \$681,520,000. The monthly weighted average all-in variable rate was 1.44%. Including the District's weighted average fixed rate bond issues of 3.70% and the previous month's negative cash accruals from fixed payer interest rate swaps, which hedge a portion of the District's variable rate debt, the total average debt rate was 3.56%.

As of May 31, 2018, the total notional amount of the interest rate swap portfolio was \$130 million of fixed payer swaps. Cash accrual in May from all swaps was negative \$451,529.

Payroll ACH payments totaled \$1,863,936, and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, and water purchases for May totaled \$14,875,476.

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 SUMMARY OF FIXED AND VARIABLE RATE DEBT, THE MONTHLY INTEREST RATE SWAP SUMMARY FOR MAY 2018, AND DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF; APPROVE THE MAY 2018 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$1,863,936 AND APPROVE THE MAY 2018 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 387443 THROUGH 388468 WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$14,875,476.

LIST OF EXHIBITS:

Exhibit "A" – Investment Summary Report

Exhibit "B" – Summary of Fixed and Variable Debt

Exhibit "C" – Monthly Interest Rate Swap Summary

Exhibit "D" – Monthly Summary of District Disbursements

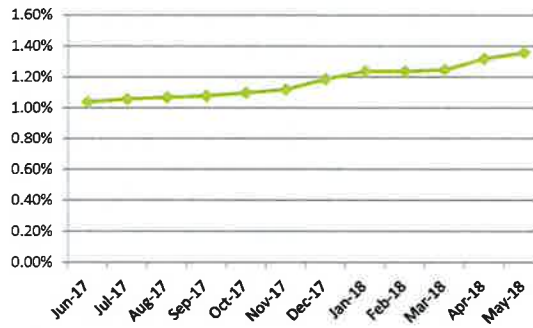
Exhibit "E" – Monthly Payroll ACH Summary

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

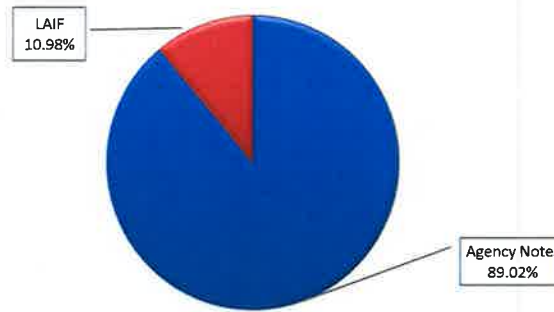
# Exhibit "A"

## Irvine Ranch Water District Investment Portfolio Summary May 2018

Monthly Fixed Income Yield



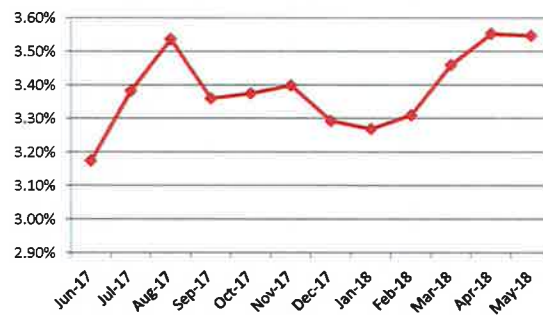
Portfolio Distribution



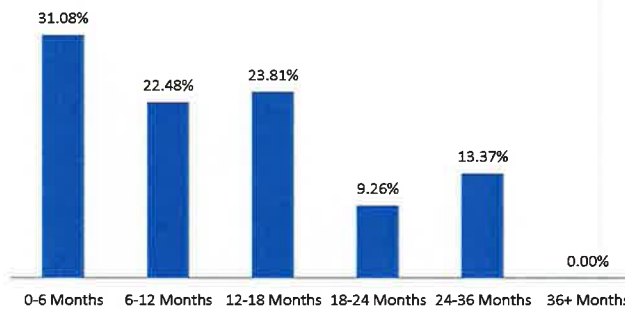
Investment Summary

Type	PAR	Book Value	Market Value
Agency Notes	336,550,000	336,344,386	333,451,200
LAIF	41,500,000	41,500,000	41,397,827
<b>Grand Total</b>	<b>378,050,000</b>	<b>377,844,386</b>	<b>374,849,027</b>

Weighted Average Return  
Including Real Estate Portfolio



Maturity Distribution



Top Issuers

Issuer	PAR	% Portfolio
Fed Home Loan Bank	116,000,000	30.68%
Fed Natl Mortgage Assoc	80,550,000	21.31%
Fed Home Loan Mortgage Corp	75,000,000	19.84%
Fed Farm Credit Bank	65,000,000	17.19%
State of California Treasury - LAIF	41,500,000	10.98%
<b>Grand Total</b>	<b>378,050,000</b>	<b>100%</b>

IRVINE RANCH WATER DISTRICT  
INVESTMENT SUMMARY REPORT

05/31/18

SEITLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE <sup>(1)</sup> 5/31/2018	UNREALIZED <sup>(2)</sup> GAIN/(LOSS)
08/23/17			06/01/18		LAIF	State of California Tsy.	\$41,500,000		1.430%	\$41,500,000.00	\$41,500,000.00	41,397,827.04	(102,172.96)
05/24/16	N/A	N/A	06/08/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	11,000,000	1.250%	0.995%	11,056,540.00	11,000,531.25	10,998,460.00	(2,071.25)
06/29/16	N/A	N/A	06/29/18	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	10,000,000	1.000%	0.679%	10,016,000.00	10,000,613.70	9,989,800.00	(10,813.70)
09/01/16	N/A	N/A	07/27/18	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.750%	0.928%	4,983,250.00	4,998,648.41	4,991,050.00	(7,598.41)
12/21/16	N/A	N/A	08/15/18	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.000%	1.245%	4,980,000.00	4,997,508.31	4,989,750.00	(7,758.31)
09/01/16	N/A	N/A	08/28/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.000%	1.000%	5,000,000.00	5,000,000.00	4,987,350.00	(12,650.00)
09/01/16	NA	NA	09/14/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.125%	0.916%	5,021,000.00	5,002,967.70	4,983,100.00	(19,867.70)
12/28/16	NA	NA	09/14/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.125%	1.225%	4,991,500.00	4,998,572.00	4,983,100.00	(15,472.00)
10/12/16	N/A	N/A	09/27/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	0.900%	0.952%	9,990,000.00	9,998,069.93	9,962,500.00	(35,569.93)
10/12/16	N/A	N/A	09/28/18	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.880%	0.942%	4,994,000.00	4,998,835.20	4,981,050.00	(17,785.20)
09/01/16	NA	NA	10/01/18	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.030%	0.925%	5,010,750.00	5,001,725.66	4,983,400.00	(18,325.66)
10/12/16	N/A	N/A	10/12/18	Aaa/NR/NR	FFCB - Note	Fed Farm Credit Bank	10,000,000	1.000%	1.041%	9,992,000.00	9,998,323.29	9,963,900.00	(34,423.29)
10/12/16	N/A	N/A	11/27/18	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	10,000,000	1.625%	0.956%	10,140,360.00	10,035,994.38	9,976,900.00	(59,094.38)
12/21/16	N/A	N/A	12/05/18	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.100%	1.319%	4,978,900.00	5,021,456.59	4,972,450.00	(49,006.59)
09/01/16	NA	NA	12/14/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.750%	0.941%	5,091,300.00	5,011,354.39	4,989,400.00	(21,954.39)
12/27/16	NA	NA	12/14/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.750%	1.320%	5,041,536.20	4,994,473.81	4,989,400.00	(5,073.81)
09/01/16	One Time	07/30/18	01/30/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.950%	1.009%	4,993,000.00	4,998,069.24	4,958,400.00	(39,669.24)
10/26/16	One Time	07/30/18	01/30/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.950%	1.035%	4,990,500.00	4,997,136.20	4,958,400.00	(38,736.20)
10/26/16	One Time	07/30/18	01/30/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.950%	1.040%	4,990,000.00	4,996,985.47	4,958,400.00	(38,585.47)
10/12/16	Continuous after	02/12/18	02/12/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	1.050%	1.093%	9,990,000.00	9,996,764.36	9,919,500.00	(77,264.36)
09/01/16	NA	NA	03/08/19	Aaa/AA+/AAA	FHLB - Note	Fed Home Loan Bank	5,000,000	1.500%	0.964%	5,066,500.00	5,020,283.22	4,972,300.00	(47,983.22)
03/21/18	NA	NA	03/21/19	Aaa/NA/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	2.125%	2.125%	10,000,000.00	10,000,000.00	9,991,100.00	(8,900.00)
10/12/16	N/A	N/A	03/29/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.050%	1.050%	4,999,950.00	4,999,982.13	4,951,400.00	(48,582.13)
10/12/16	N/A	N/A	04/15/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	10,000,000	1.125%	0.992%	10,032,800.00	10,012,116.28	9,903,000.00	(109,116.28)
10/31/16	N/A	N/A	04/26/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.050%	1.060%	4,998,750.00	4,999,545.20	4,945,950.00	(53,595.20)
09/01/16	N/A	N/A	05/28/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.030%	1.048%	4,997,550.00	4,999,114.66	4,942,800.00	(56,314.66)
04/19/18	N/A	N/A	05/30/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.750%	2.252%	4,972,500.00	4,975,412.56	4,974,150.00	(1,262.56)
09/01/16	NA	NA	06/14/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.625%	0.987%	5,087,400.00	5,032,516.93	4,968,550.00	(63,966.93)
10/12/16	NA	NA	06/14/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.625%	1.103%	5,068,515.88	5,027,968.53	4,968,550.00	(59,418.53)
10/12/16	NA	NA	07/19/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.875%	1.098%	4,969,652.90	4,986,989.81	4,920,850.00	(66,139.81)
09/01/16	NA	NA	07/26/19	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.150%	1.180%	4,995,700.00	4,998,293.01	4,929,750.00	(68,543.01)
09/01/16	N/A	N/A	08/28/19	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.150%	1.160%	4,998,500.00	4,999,377.18	4,928,450.00	(70,927.18)
09/01/16	NA	NA	08/28/19	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.125%	1.132%	4,999,000.00	4,999,584.78	4,926,950.00	(72,634.78)
09/28/16	Quarterly	03/09/17	09/09/19	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.125%	1.142%	4,997,500.00	4,998,915.66	4,926,750.00	(72,165.66)
04/10/18	NA	NA	09/13/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	2.375%	2.288%	5,006,000.00	5,005,401.15	5,002,550.00	(2,851.15)
09/28/16	Continuous after	12/27/16	09/27/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.250%	1.189%	5,001,500.00	5,000,662.25	4,928,300.00	(72,362.25)
10/12/16	Continuous after	10/03/17	10/03/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	1.125%	1.160%	9,989,780.00	9,995,209.96	9,837,600.00	(157,609.96)
10/12/16	Continuous after	10/11/17	10/11/19	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	10,000,000	1.120%	1.205%	9,975,000.00	9,988,185.56	9,828,600.00	(159,585.56)

IRVINE RANCH WATER DISTRICT  
INVESTMENT SUMMARY REPORT

05/31/18

SETTLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE <sup>(1)</sup> 5/31/2018	UNREALIZED <sup>(2)</sup> GAIN/(LOSS)
11/08/16	Quarterly	05/08/17	11/08/19	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.250%	1.245%	5,000,750.00	5,000,359.59	4,923,000.00	(77,359.59)
11/28/16	NA	NA	11/15/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.375%	1.440%	4,990,550.00	4,995,353.60	4,928,600.00	(66,753.60)
11/28/16	Quarterly	05/25/17	11/25/19	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.400%	1.503%	4,985,000.00	4,992,554.95	4,931,400.00	(61,154.95)
12/12/16	NA	NA	12/12/19	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.450%	1.440%	5,001,450.00	5,000,739.58	4,930,400.00	(70,339.58)
12/21/16	NA	NA	12/19/19	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.500%	1.621%	4,982,350.00	4,990,860.11	4,933,250.00	(57,610.11)
12/20/17	NA	NA	01/17/20	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.500%	1.932%	4,956,250.00	4,959,770.78	4,927,350.00	(32,420.78)
10/16/17	NA	NA	02/28/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.500%	1.612%	4,987,025.00	4,990,445.00	4,922,200.00	(68,245.00)
12/20/17	NA	NA	03/13/20	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	4.125%	1.940%	5,237,200.00	5,219,424.57	5,142,050.00	(77,374.57)
10/03/17	NA	NA	04/20/20	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.375%	1.630%	4,976,551.77	4,976,551.77	4,903,050.00	(73,501.77)
11/21/17	Continuous after	02/20/18	05/20/20	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.830%	1.930%	4,987,500.00	4,974,433.51	4,924,200.00	(50,233.51)
11/10/17	NA	NA	06/22/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.500%	1.750%	4,968,000.00	4,990,285.40	4,903,300.00	(86,985.40)
04/19/18	NA	NA	07/30/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.500%	2.535%	4,886,000.00	4,891,884.75	4,897,550.00	5,665.25
12/20/17	Quarterly	11/10/16	08/10/20	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.450%	2.052%	4,923,000.00	4,927,872.41	4,876,600.00	(51,272.41)
05/21/18	Continuous after	12/01/17	09/01/20	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.680%	2.735%	4,884,250.00	4,885,776.68	4,904,350.00	18,573.32
12/12/17	One Time	09/28/18	09/28/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	2.000%	2.000%	5,000,000.00	5,000,000.00	4,937,700.00	(62,300.00)
10/31/17	One Time	10/30/18	10/30/20	Aaa/NR/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,550,000	1.850%	1.850%	5,550,000.00	5,550,000.00	5,448,990.00	(101,010.00)
12/13/17	Continuous after	08/23/17	11/23/20	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.770%	2.060%	4,958,750.00	4,961,088.52	4,897,200.00	(63,888.52)
12/13/17	Quarterly	05/24/18	11/24/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.900%	2.023%	4,982,500.00	4,983,491.18	4,903,550.00	(79,941.18)
11/30/17	NA	NA	11/24/20	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.850%	1.964%	4,983,550.00	4,986,311.79	4,913,350.00	(72,961.79)
12/20/17	NA	NA	12/28/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.875%	2.023%	4,978,400.00	4,979,593.48	4,919,200.00	(60,393.48)
<b>TOTAL INVESTMENTS</b>							<u>\$378,050,000</u>			<u>\$378,118,109.98</u>	<u>\$377,844,386.43</u>	<u>\$374,849,027.04</u>	

Petty Cash  
Ck Balance Bank of America

3,400.00  
1,849,167.99  
\$379,970,677.97

<sup>(1)</sup> LAIF market value is as of the most recent quarter-end as reported by LAIF.	Outstanding Variable Rate Debt	\$282,600,000	
Security market values are determined using Bank of New York ("Trading Prices"), Bloomberg and/or broker dealer pricing.	Net Outstanding Variable Rate Debt (Less \$130 million fixed-payer swaps)	\$152,600,000	
<sup>(2)</sup> Gain (loss) calculated against carry value using the trading value provided by Bank of New York/or Brokers	Investment Balance:	\$379,970,678	
<sup>(3)</sup> Real estate rate of return is based on most recent quarter end return	Investment to Variable Rate Debt Ratio:	249%	
	Portfolio - Average Number of Days To Maturity <sup>(4)</sup>	356	
	<b>Investment Portfolio</b>	<b>Real Estate<sup>(3)</sup> Portfolio</b>	<b>Weighted Avg. Return</b>
	May 1.36%	8.91%	3.55%
	April 1.32%	8.91%	3.55%
	Change 0.04%		0.00%

This Investment Summary Report is in conformity with the 2018 Investment Policy and provides sufficient liquidity to meet the next six months estimated expenditures.  
\*S - Step up

IRVINE RANCH WATER DISTRICT  
SUMMARY OF MATURITIES

05/31/18

DATE	TOTAL	%	LAIF	Agency Notes	Agency Discount Notes	Collateral Deposit	US Treasury
05/18	\$41,500,000	10.98%	\$41,500,000				
06/18	21,000,000	5.55%		21,000,000			
07/18	5,000,000	1.32%		5,000,000			
08/18	10,000,000	2.65%		10,000,000		-	
09/18	25,000,000	6.61%		25,000,000			
10/18	15,000,000	3.97%		15,000,000			
11/18	10,000,000	2.65%		10,000,000			
12/18	15,000,000	3.97%		15,000,000			
01/19	15,000,000	3.97%		15,000,000			
02/19	10,000,000	2.65%		10,000,000			
03/19	20,000,000	5.29%		20,000,000			
04/19	15,000,000	3.97%		15,000,000			
<b>SUB-TOTAL</b>	<b>\$202,500,000</b>	<b>53.56%</b>	<b>\$41,500,000</b>	<b>\$161,000,000</b>			
<b>13 Months - 3 YEARS</b>							
5/01/19 - 8/31/2019	40,000,000	10.58%		40,000,000			
9/01/2019 - 11/30/19	50,000,000	13.23%		50,000,000			
12/01/19 - 2/28/2020	20,000,000	5.29%		20,000,000			
3/01/2020 - 5/31/2020	15,000,000	3.97%		15,000,000			
6/01/2020 - 8/31/2020	15,000,000	3.97%		15,000,000			
9/01/2020 -12/31/2020	35,550,000	9.40%		35,550,000			
1/01/2021 -2/28/2021	-						
	-						
	-						
<b>TOTALS</b>	<b>\$378,050,000</b>	<b>100.00%</b>	<b>\$41,500,000</b>	<b>\$336,550,000</b>			

% OF PORTFOLIO

10.98%

89.02%

**IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT**  
**INVESTMENT ACTIVITY**  
**May-18**

**MATURITIES/SALES/CALLS**

**PURCHASES**

DATE	SECURITY TYPE	PAR	YIELD	Settlement Date	Maturity Date	SECURITY TYPE	PAR	YIELD TO MATURITY
5/16/2018	FFCB - Note	\$5,000,000	0.80%	5/21/2018	9/1/2020	FFCB - Note	\$5,000,000	2.73%
5/21/2018	FNMA Note	\$5,000,000	0.77%					

Irvine Ranch Water District  
 Summary of Real Estate - Income Producing Investments  
 3/31/2018

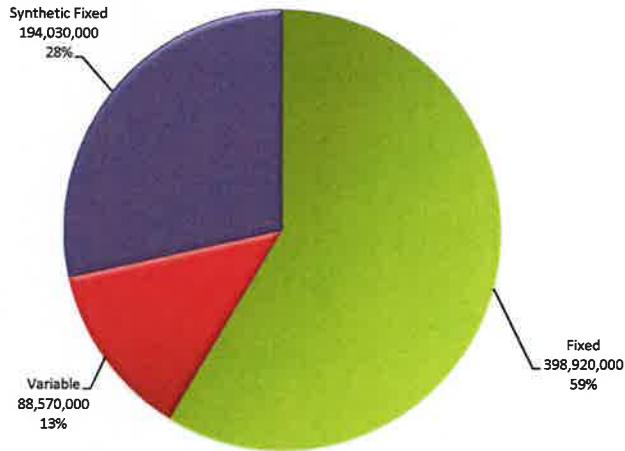
	ACQUISITION DATE	PROPERTY TYPE	OWNERSHIP INTEREST	ORIGINAL COST	ESTIMATED MARKET VALUE 3/31/2018	ANNUALIZED RATE OF RETURN QUARTER ENDED 3/31/2018
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$ 43,550,810	\$ 147,507,750	18.94%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$ 6,000,000	\$ 28,934,076	8.56%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$ 5,739,845	\$ 9,571,680	11.08%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$ 8,630,577	\$ 7,803,000	3.39%
Sand Canyon Professional Center	Jul-12	Medical Office	Fee Simple	\$ 8,648,594	\$ 10,820,160	9.02%
<b>Total - Income Properties</b>				<b>\$ 72,569,826</b>	<b>\$ 204,636,666</b>	<b>14.43%</b>
<b>OTHER REAL ESTATE</b>						
<b>DESCRIPTION</b>						
Serrano Summit - Promissory Note	Sep-17	NA	NA	\$ 81,600,000	\$ 81,600,000	4.00%
<b>Total - Income Producing Real Estate Investments</b>				<b>\$ 154,169,826</b>	<b>\$ 286,236,666</b>	<b>8.91%</b>



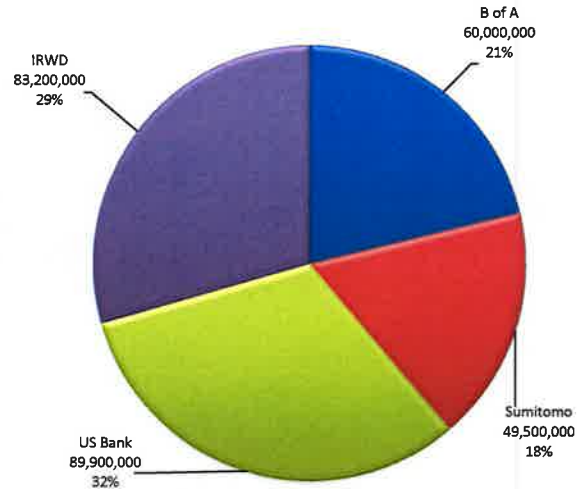
Exhibit "B"

Irvine Ranch Water District  
 Summary of Fixed and Variable Rate Debt  
 May 2018

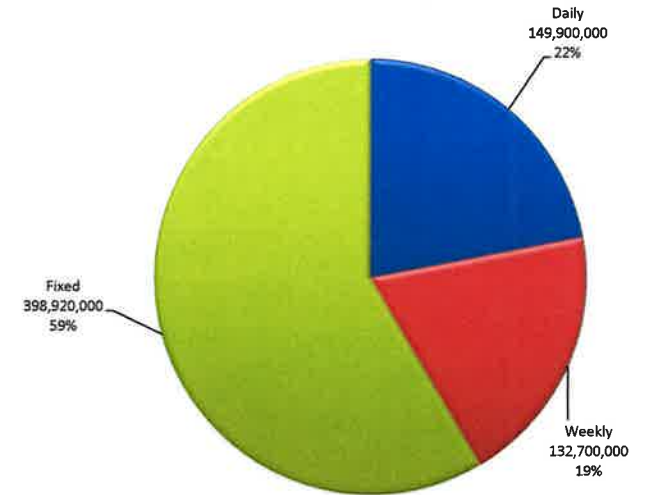
Current Debt Mix By Type



Letters of Credit / Support



Current Debt Rate Reset



Outstanding Par by Series

Series	Issue Date	Maturity Date	Remaining Principal	Percent	Letter of Credit	Rmkt Agent	Mode	Reset
Series 1993	05/19/93	04/01/33	\$29,900,000	4.39%	US Bank	BAML	Variable	Daily
Series 2008-A Refunding	04/24/08	07/01/35	\$49,500,000	7.26%	Sumitomo	BAML	Variable	Weekly
Series 2011-A-1 Refunding	04/15/11	10/01/37	\$49,920,000	7.32%	IRWD	Goldman	Variable	Weekly
Series 2011-A-2 Refunding	04/15/11	10/01/37	\$33,280,000	4.88%	IRWD	Morgan	Variable	Weekly
Series 2009 - A	06/04/09	10/01/41	\$60,000,000	8.80%	US Bank	US Bank	Variable	Daily
Series 2009 - B	06/04/09	10/01/41	\$60,000,000	8.80%	B of A	Goldman	Variable	Daily
2010 Refunding Cops	02/23/10	03/01/20	\$3,775,000	0.55%	N/A	N/A	Fixed	Fixed
2016 COPS	09/01/16	03/01/46	\$116,745,000	17.13%	N/A	N/A	Fixed	Fixed
2010 Build America Taxable Bond	12/16/10	05/01/40	\$175,000,000	25.68%	N/A	N/A	Fixed	Fixed
Series 2016	10/12/16	02/01/46	\$103,400,000	15.17%	N/A	N/A	Fixed	Fixed
<b>Total</b>			<b>\$681,520,000</b>	<b>100.00%</b>				

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

May-18

ITN
Daily
Weekly

GENERAL BOND INFORMATION							LETTER OF CREDIT INFORMATION							TRUSTEE INFORMATION																								
VARIABLE RATE ISSUES	Issue Date	Maturity Date	Principal Payment Date	Payment Date	Original Par Amount	Remaining Principal	Letter of Credit	Reimbursement Agreement Date	L/C Exp. Date	MOODYS	S&P	FITCH	LOC Stated Amount	LOC Fee	Annual LOC Cost	Rmkt Agent	Reset	Rmkt Fees	Annual Cost	Trustee																		
SERIES 1993	05/19/93	04/01/33	APR 1 (2014)	5th Bus. Day	\$38,300,000	\$29,900,000	US BANK	05/07/15	11/07/18	Aa3/VMIG1	AA-/A-1+	N/R	\$30,303,036	0.3300%	\$100,000	BAML	DAILY	0.10%	\$29,900	BANK OF NY																		
SERIES 2008-A Refunding	04/24/08	07/01/35	JUL 1	5th Bus. Day	\$60,215,000	\$49,500,000	SUMITOMO	04/01/11	07/21/21	A1/P-1	A/A-1	A/F1	\$50,232,329	0.3150%	\$158,232	BAML	WED	0.07%	\$34,650	BANK OF NY																		
SERIES 2011-A-1 Refunding	04/15/11	10/01/37	Oct 1	1st Bus. Day	\$60,545,000	\$49,920,000	N/A	N/A	N/A	Aa1/VMIG1	A-1+	AAA/F1+	N/A	N/A	N/A	Goldman	WED	0.13%	\$62,400	BANK OF NY																		
SERIES 2011-A-2 Refunding	04/15/11	10/01/37	Oct 1	1st Bus. Day	\$40,370,000	\$33,280,000	N/A	N/A	N/A	Aa1/VMIG1	A-1+	AAA/F1+	N/A	N/A	N/A	Morgan S	WED	0.13%	\$41,600	BANK OF NY																		
SERIES 2009 - A	06/04/09	10/01/41	Oct 1	1st Bus. Day	\$75,000,000	\$60,000,000	US BANK	04/01/11	12/22/20	Aa2/VMIG 1	AA-/A-1+	AA/F1+	\$60,670,685	0.4100%	\$248,750	US Bank	DAILY	0.07%	\$42,000	US BANK																		
SERIES 2009 - B	06/04/09	10/01/41	Oct 1	1st Bus. Day	\$75,000,000	\$60,000,000	B of A	04/01/11	07/15/19	A1/VMIG 1	A/A-1	A1/F1+	\$60,670,685	0.4000%	\$242,683	Goldman	DAILY	0.10%	\$60,000	US BANK																		
<b>\$349,430,000</b>							<b>\$282,600,000</b>							<b>\$201,876,734</b>					<b>0.3714%</b>					<b>\$749,664</b>					<b>0.10%</b>					<b>\$270,550</b>				
														(Wt. Avg)					(Wt. Avg)																			

FIXED RATE ISSUES																												
2010 REFUNDING COPS	02/23/10	03/01/20	Mar -1	MAR/SEPT	\$85,145,000	\$3,775,000	N/A	N/A	N/A	Aa1	AAA	AAA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	BANK OF NY							
2010 GO Build America Taxable Bonds	12/16/10	05/01/40	MAY (2025)	MAY/NOV	\$175,000,000	\$175,000,000	N/A	N/A	N/A	Aa1	AAA	NR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	US BANK							
2016 COPS	09/01/16	03/01/46	Mar - 1	MAR/SEPT	\$116,745,000	\$116,745,000	N/A	N/A	N/A	NR	AAA	AAA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	US BANK							
SERIES 2016	10/12/16	02/01/46	Feb - 1	FEB/AUG	\$103,400,000	\$103,400,000	N/A	N/A	N/A	NR	AAA	AAA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	BANK OF NY							
<b>\$480,290,000</b>							<b>\$398,920,000</b>							<b>\$829,720,000</b>					<b>\$681,520,000</b>									
														SUB-TOTAL VARIABLE RATE DEBT					SUB-TOTAL FIXED RATE DEBT					TOTAL - FIXED & VARIABLE RATE DEBT				

Remarketing Agents			GO VS COP's		
Goldman	109,920,000	39%	GO:	561,000,000	82%
Morgan Stanley	33,280,000	12%	COPS:	120,520,000	18%
BAML	79,400,000	28%	Total	<b>681,520,000</b>	
US Bank	60,000,000	21%			
	<b>282,600,000</b>				

LOC Banks		Breakdown Between Variable & Fixed Rate Mode	
SUMITOMO	49,500,000	Daily Issues	149,900,000 22%
BANK OF AMERICA	60,000,000	Weekly Issues	49,500,000 7%
US BANK	89,900,000	ITN Issues	83,200,000 12%
	<b>199,400,000</b>	Sub-Total	<b>282,600,000</b>
		Fixed Rate Issues	\$398,920,000 59%
		Sub-Total - Fixed	<b>398,920,000</b>
		TOTAL DEBT	
		FIXED & VAR.	<b>681,520,000</b> 100%

IRVINE RANCH WATER DISTRICT  
SUMMARY OF DEBT RATES  
May-18

Rmkt Agent	GOLDMAN		MORGAN STANLEY	MERRILL LYNCH		US BANK
Mode	DAILY	WEEKLY	WEEKLY	DAILY	WEEKLY	DAILY
Bond Issue	2009 - B	2011 A-1	2011 A-2	1993	2008-A	2009-A
Par Amount	60,000,000	49,920,000	33,280,000	29,900,000	49,500,000	60,000,000
Bank	BOFA	(SIFMA -1)	(SIFMA -1)	US BANK	Sumitomo	US BANK
Reset		Wednesday	Wednesday		Wednesday	
5/1/2018	1.18%	1.74%	1.74%	1.26%	1.63%	1.21%
5/2/2018	1.14%	1.74%	1.74%	1.22%	1.63%	1.18%
5/3/2018	1.10%	1.60%	1.60%	1.22%	1.44%	1.10%
5/4/2018	1.10%	1.60%	1.60%	1.18%	1.44%	1.09%
5/5/2018	1.10%	1.60%	1.60%	1.18%	1.44%	1.09%
5/6/2018	1.10%	1.60%	1.60%	1.18%	1.44%	1.09%
5/7/2018	1.05%	1.60%	1.60%	1.20%	1.44%	1.06%
5/8/2018	1.05%	1.60%	1.60%	1.17%	1.44%	1.04%
5/9/2018	0.98%	1.60%	1.60%	1.12%	1.44%	1.00%
5/10/2018	0.95%	1.50%	1.50%	1.14%	1.33%	0.95%
5/11/2018	0.95%	1.50%	1.50%	1.08%	1.33%	0.95%
5/12/2018	0.95%	1.50%	1.50%	1.08%	1.33%	0.95%
5/13/2018	0.95%	1.50%	1.50%	1.08%	1.33%	0.95%
5/14/2018	0.93%	1.50%	1.50%	1.01%	1.33%	0.95%
5/15/2018	0.91%	1.50%	1.50%	0.95%	1.33%	0.91%
5/16/2018	0.87%	1.50%	1.50%	0.87%	1.33%	0.89%
5/17/2018	0.82%	1.37%	1.37%	0.84%	1.15%	0.80%
5/18/2018	0.78%	1.37%	1.37%	0.77%	1.15%	0.78%
5/19/2018	0.78%	1.37%	1.37%	0.77%	1.15%	0.78%
5/20/2018	0.78%	1.37%	1.37%	0.77%	1.15%	0.78%
5/21/2018	0.74%	1.37%	1.37%	0.71%	1.15%	0.75%
5/22/2018	0.65%	1.37%	1.37%	0.65%	1.15%	0.69%
5/23/2018	0.57%	1.37%	1.37%	0.61%	1.15%	0.60%
5/24/2018	0.52%	1.19%	1.19%	0.56%	1.04%	0.50%
5/25/2018	0.47%	1.19%	1.19%	0.52%	1.04%	0.49%
5/26/2018	0.47%	1.19%	1.19%	0.52%	1.04%	0.49%
5/27/2018	0.47%	1.19%	1.19%	0.52%	1.04%	0.49%
5/28/2018	0.47%	1.19%	1.19%	0.52%	1.04%	0.49%
5/29/2018	0.45%	1.19%	1.19%	0.50%	1.04%	0.46%
5/30/2018	0.45%	1.19%	1.19%	0.45%	1.04%	0.45%
5/31/2018	0.45%	1.05%	1.05%	0.52%	0.86%	0.43%
<b>Avg Interest Rates</b>	0.81%	1.42%	1.42%	0.88%	1.25%	0.82%
Rmkt Fee	0.10%	0.13%	0.13%	0.10%	0.07%	0.07%
LOC Fee	0.40%			0.33%	0.32%	0.41%
<b>All-In Rate</b>	<b>1.31%</b>	<b>1.55%</b>	<b>1.55%</b>	<b>1.31%</b>	<b>1.64%</b>	<b>1.30%</b>
Par Amount		109,920,000	33,280,000		79,400,000	60,000,000

Interest Rate Mode	Percent of Total Variable Rate Debt	Par Outstanding	Weighted All-In Average Rate	Base Rate Average
Daily	53.04%	149,900,000	1.31%	0.83%
Weekly	46.96%	132,700,000	1.58%	1.36%
<b>Fixed</b>	100.00%	<b>\$ 282,600,000</b>	1.44%	1.08%
COPS 2010	0.95%	3,775,000	3.82%	
COPS 2016	29.27%	116,745,000	2.90%	
BABS 2010	43.87%	175,000,000	4.46%	(1)
SERIES 2016	25.92%	103,400,000	3.32%	
	100.00%	<b>\$ 398,920,000</b>	3.70%	
<b>All-In Debt Rate Including \$130 Million Notional Amount of Swaps</b>				<b>3.56%</b>

(1) Rate adjusted up from 4.35% as a result of sequestration reducing BAB's subsidy by 6.8%

**IRVINE RANCH WATER DISTRICT  
INTEREST RATE SWAP MONTHLY SUMMARY REPORT - DETAIL  
May 31, 2018**

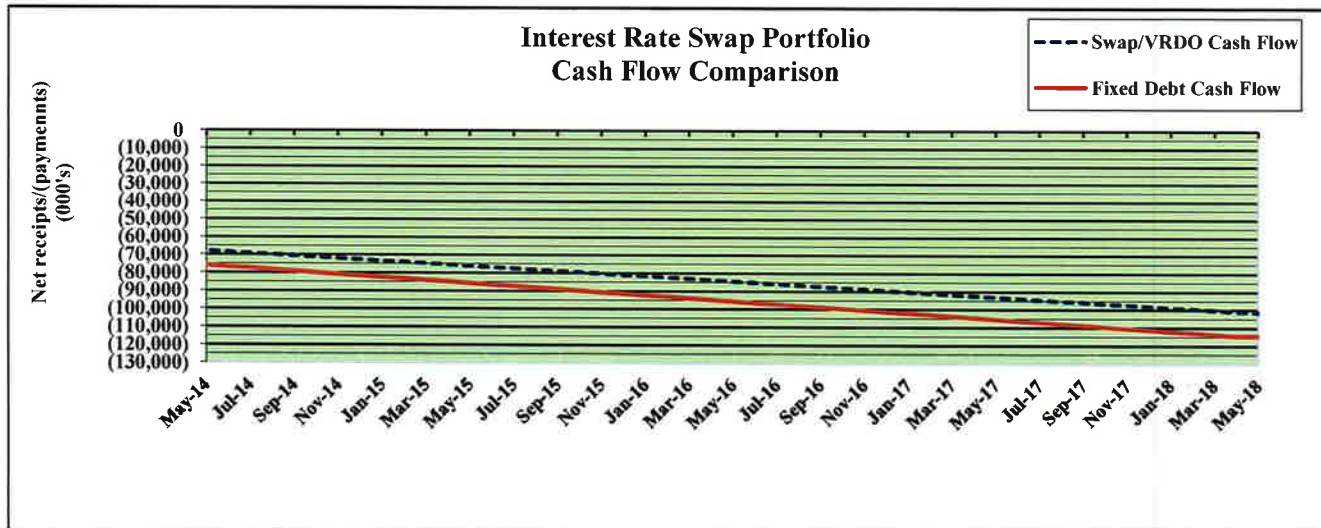
Exhibit "C"

LIBOR Avg %	Prior Mo.	Current Mo.	12-Mo Avg
	1.90%	1.95%	1.44%

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
<b>Fixed Payer Swaps - By Effective Date</b>													
6/4/2006	6/4/2019	1.0	ML	\$ 20,000,000	FXP	LIBOR	6.200%	(73,956)	(73,836)	\$ (868,702)	\$ (11,791,995)	\$ 11,976,921	\$ (8,023,079)
6/4/2006	6/4/2019	1.0	CG	20,000,000	FXP	LIBOR	6.200%	(73,956)	(73,836)	(868,702)	(11,791,995)	11,963,642	(8,036,358)
6/17/2006	6/17/2019	1.0	CG	30,000,000	FXP	LIBOR	6.140%	(109,452)	(109,145)	(1,286,101)	(17,488,758)	28,825,881	(1,174,119)
3/10/2007	3/10/2029	10.8	ML	30,000,000	FXP	LIBOR	5.687%	(97,900)	(97,356)	(1,161,876)	(15,767,683)	29,230,251	(769,749)
3/10/2007	3/10/2029	10.8	CG	30,000,000	FXP	LIBOR	5.687%	(97,900)	(97,356)	(1,161,876)	(15,767,683)	29,230,803	(769,197)
Totals/Weighted Avgs		5.5		\$ 130,000,000			5.949%	\$ (453,164)	\$ (451,529)	\$ (5,347,256)	\$ (72,608,112)	\$ 111,227,498	\$ (18,772,502)
Total Current Year Active Swaps				\$ 130,000,000				\$ (453,164)	\$ (451,529)	\$ (5,347,256)	\$ (72,608,112)	\$ 111,227,498	\$ (18,772,502)

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								\$ (453,164)	\$ (451,529)	\$ (5,347,256)	\$ (72,608,112)	\$ 111,227,498	\$ (18,772,502)



Cash Flow Comparison	
Synthetic Fixed vs. Fixed Rate Debt	
Cash Flow to Date	
Synthetic Fixed =	\$101,171,013
Fixed Rate =	\$114,376,609
<b>Assumptions:</b>	
- Fixed rate debt issued at 5.10% in Jun-06, and 4.93% in Mar-07 (estimated TE rates - Bloomberg)	
- 'Synthetic' includes swap cash flow + interest + fees to date	

# Exhibit "D"

IRWD Ledger Upgrade

Void Payment Register

Report Date: 04-JUN-2018 08:53

Include Zero Amount Payments: Yes  
Display Payee Address: No

Period From: 01-MAY-18

Page: 1  
To: 31-MAY-18  
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						
382384	29-NOV-17	SEO, KYUNGA	IRVINE		78.00	01-MAY-18
383097	20-DEC-17	ROUND TABLE FINANCIAL, INC.	IRVINE		87.70	30-MAY-18
383330	04-JAN-18	JLASSI, SABER	PAY		33.37	25-MAY-18
383368	04-JAN-18	REGENCY CENTERS	LOS ANGELES		130.00	30-MAY-18
383383	04-JAN-18	SIMMONS, TYLER	PAY		3.44	25-MAY-18
383403	04-JAN-18	TRI POINTE HOMES, INC.	PAY		1,718.77	29-MAY-18
383413	04-JAN-18	WANG, ZHIGUO	PAY		39.97	25-MAY-18
383475	11-JAN-18	BOLLMAN, CATALINA	PAY		19.74	25-MAY-18
383511	11-JAN-18	DU, XIWEN	PAY		29.76	25-MAY-18
383533	11-JAN-18	GUO, HAOXIANG	PAY		32.21	25-MAY-18
383544	11-JAN-18	HOLDEN, PAUL A	PAY		131.70	29-MAY-18
383546	11-JAN-18	HUANG, JUKAI	PAY		158.06	29-MAY-18
383570	11-JAN-18	LEE, SHAOQING	PAY		64.75	25-MAY-18
383576	11-JAN-18	LIU, WEIYUN	PAY		58.38	25-MAY-18
383630	11-JAN-18	REN, CHAOGANG	PAY		43.48	25-MAY-18
383644	11-JAN-18	SATO, KONOSUKE	PAY		40.61	25-MAY-18
383646	11-JAN-18	SEBRING, VICTOR	PAY		47.26	25-MAY-18
383670	11-JAN-18	TEHRANI, SADROLZAMA R	PAY		119.56	29-MAY-18
383694	11-JAN-18	WANG, QIANXI	PAY		28.16	25-MAY-18
383695	11-JAN-18	WANG, YANWEN	PAY		37.98	25-MAY-18
383705	11-JAN-18	WU, LIQUN	PAY		54.86	25-MAY-18
383713	11-JAN-18	ZHANG, CHIYANG	PAY		12.15	25-MAY-18
383751	18-JAN-18	BLACK, BRIDGET	PAY		50.79	25-MAY-18
383805	18-JAN-18	HOLLAND, CHRISTY A	PAY		424.94	29-MAY-18
383835	18-JAN-18	LUO, CHANGCHENG	PAY		16.80	25-MAY-18
383858	18-JAN-18	PALILEO, VINCENT	PAY		237.37	29-MAY-18
383882	18-JAN-18	SCHMUTZ, ASHLEY	PAY		41.13	25-MAY-18
383927	18-JAN-18	ZIMMERMAN, ROBERT	PAY		4,640.51	01-MAY-18
383967	25-JAN-18	BO, FENG	PAY		25.87	25-MAY-18
384130	25-JAN-18	THE FISHEL COMPANY	PAY		1,541.96	29-MAY-18
384159	25-JAN-18	XU, YINGHUA	PAY		45.64	25-MAY-18
385313	08-MAR-18	BAI, YU	PAY		80.20	30-MAY-18
385993	28-MAR-18	BEAUVIL, RICHARD	PAY		11.27	07-MAY-18
386396	28-MAR-18	REYNOLDS, JASON	PAY		46.92	02-MAY-18
386908	12-APR-18	HUR, INKYONG	PAY		39.59	29-MAY-18
387061	19-APR-18	AMANE ADVISORS NORTH AMERIC	PURCHASE		25,000.00	21-MAY-18
387097	19-APR-18	CHEN, SHUFANG	PAY		41.78	08-MAY-18
387458	03-MAY-18	ALEXANDER'S CONTRACT SERVIC	ATASCADERO 1		125.00	14-MAY-18

IRWD Ledger Upgrade

Void Payment Register

Report Date: 04-JUN-2018 08:53

Include Zero Amount Payments: Yes  
Display Payee Address: No

Period From: 01-MAY-18

Page: 2  
To: 31-MAY-18  
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	35,339.68
					Bank Account Subtotal	35,339.68
Report Count: 38					Report Total	35,339.68

Voids

\*\*\* End of Report \*\*\*

IRWD Ledger Upgrade  
 BANK: Bank of America N.A.  
 Bank Account Currency: USD ( US Dollar )  
 Payment Type: All

Payment Register For  
 Branch : Los Angeles

01-MAY-18 To 31-MAY-18  
 Account: Checking AP and PR  
 Payment Currency: USD ( US Dollar )  
 Display Supplier Address: No

Report Date: 04-JUN-2018 08:53  
 Page: 1

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
387443		03-MAY-18	WESTAMERICA COMMUNICATIONS, INC.	LAKE FOREST	43,207.67	03-MAY-18	43,207.67	Reconciled
387444		03-MAY-18	Dillman, Tyler		130.00	07-MAY-18	130.00	Reconciled
387445		03-MAY-18	Hufana, Eugenio D		31.61	07-MAY-18	31.61	Reconciled
387446		03-MAY-18	Kalinsky, Arseny (Arseny)		269.00	08-MAY-18	269.00	Reconciled
387447		03-MAY-18	LaMar, Steven E		495.51	14-MAY-18	495.51	Reconciled
387448		03-MAY-18	Ludwig, Jason		120.00	21-MAY-18	120.00	Reconciled
387449		03-MAY-18	Meserlian, Barkev M		29.33	15-MAY-18	29.33	Reconciled
387450		03-MAY-18	Nash, Joel		76.31	10-MAY-18	76.31	Reconciled
387451		03-MAY-18	Reynoso, Pio (Pio)		95.00			Negotiable
387452		03-MAY-18	Shinbashi, Allen		50.80	21-MAY-18	50.80	Reconciled
387453		03-MAY-18	Swan, Peer		675.51	14-MAY-18	675.51	Reconciled
387454		03-MAY-18	ADT SECURITY SERVICES INC		236.67	15-MAY-18	236.67	Reconciled
387455		03-MAY-18	ADVANCED CALIBRATION DESIGNS INC		776.00	18-MAY-18	776.00	Reconciled
387456		03-MAY-18	AIR TECHNOLOGY LABORATORIES		289.00	31-MAY-18	289.00	Reconciled
387457		03-MAY-18	AIRGAS, INC.		4,917.00	09-MAY-18	4,917.00	Reconciled
387458		03-MAY-18	ALEXANDER'S CONTRACT SERVICES, INC.		125.00			Voided
387459		03-MAY-18	ALSTON & BIRD LLP		93,813.16	10-MAY-18	93,813.16	Reconciled
387460		03-MAY-18	APCO GRAPHICS INC		107.75	10-MAY-18	107.75	Reconciled
387461		03-MAY-18	APEX LIFE SCIENCES, LLC		2,235.62	10-MAY-18	2,235.62	Reconciled
387462		03-MAY-18	AT&T		54.23	14-MAY-18	54.23	Reconciled
387463		03-MAY-18	AT&T		10.77	14-MAY-18	10.77	Reconciled
387464		03-MAY-18	AT&T		4,169.41	10-MAY-18	4,169.41	Reconciled
387465		03-MAY-18	AUTOZONE PARTS, INC.		589.95	11-MAY-18	589.95	Reconciled
387466		03-MAY-18	BANERJEE, ATTREYEE		42.02	17-MAY-18	42.02	Reconciled
387467		03-MAY-18	BANK OF NEW YORK MELLON TRUST COMPANY NA		3,486.00	10-MAY-18	3,486.00	Reconciled
387468		03-MAY-18	BARIL, OLIVIA		250.48	18-MAY-18	250.48	Reconciled
387469		03-MAY-18	BILL'S SWEEPING SERVICE INC		900.00	11-MAY-18	900.00	Reconciled
387470		03-MAY-18	BIOMAGIC INC		16,672.43	08-MAY-18	16,672.43	Reconciled
387471		03-MAY-18	BRITHINEE ELECTRIC		30,189.91	09-MAY-18	30,189.91	Reconciled
387472		03-MAY-18	BURKE, WILLIAMS & SORENSEN, LLP		1,536.11	10-MAY-18	1,536.11	Reconciled

IRWD Ledger Upgrade  
 BANK: Bank of America N.A.  
 Bank Account Currency: USD ( US Dollar )  
 Payment Type: All

Payment Register For  
 Branch : Los Angeles

01-MAY-18 To 31-MAY-18  
 Account: Checking AP and PR  
 Payment Currency: USD ( US Dollar )  
 Display Supplier Address: No

Report Date: 04-JUN-2018 08:53  
 Page: 2

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
387473		03-MAY-18	CALIFORNIA BARRICADE RENTAL, INC.		16,474.64	08-MAY-18	16,474.64	Reconciled
387474		03-MAY-18	CANON SOLUTIONS AMERICA, INC.		468.06	10-MAY-18	468.06	Reconciled
387475		03-MAY-18	CITY OF LAKE FOREST		5,000.00	17-MAY-18	5,000.00	Reconciled
387476		03-MAY-18	CONSUMERS PIPE & SUPPLY CO.		2.19	09-MAY-18	2.19	Reconciled
387477		03-MAY-18	COTTONS POINT DESIGN, INC.		6,805.50	11-MAY-18	6,805.50	Reconciled
387478		03-MAY-18	COX COMMUNICATIONS, INC.		261.26	10-MAY-18	261.26	Reconciled
387479		03-MAY-18	CR & R INCORPORATED		155.08	09-MAY-18	155.08	Reconciled
387480		03-MAY-18	EAGLE PRINT DYNAMICS		1,094.55	09-MAY-18	1,094.55	Reconciled
387481		03-MAY-18	EI&C ENGINEERING INC		41,025.00	17-MAY-18	41,025.00	Reconciled
387482		03-MAY-18	ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.		14,135.00	14-MAY-18	14,135.00	Reconciled
387483		03-MAY-18	ENVIRONMENTAL EXPRESS INC		1,390.86	10-MAY-18	1,390.86	Reconciled
387484		03-MAY-18	EQUIPMENT DIRECT INC		355.00	10-MAY-18	355.00	Reconciled



387485	03-MAY-18	EUROFINS EATON ANALYTICAL, INC.	300.00	10-MAY-18	300.00	Reconciled
387486	03-MAY-18	EXCELSIOR BLOWER SYSTEMS, INC.	973.78	11-MAY-18	973.78	Reconciled
387487	03-MAY-18	EXECUTIVE LIGHTING & ELECTRIC	1,311.45	09-MAY-18	1,311.45	Reconciled
387488	03-MAY-18	FIRST CHOICE SERVICES	424.23	09-MAY-18	424.23	Reconciled
387489	03-MAY-18	FISHER SCIENTIFIC COMPANY LLC	4,619.49	09-MAY-18	4,619.49	Reconciled
387490	03-MAY-18	FITCH RATINGS, INC.	8,000.00	11-MAY-18	8,000.00	Reconciled
387491	03-MAY-18	FORESTRY SUPPLIERS INC	52.25	10-MAY-18	52.25	Reconciled
387492	03-MAY-18	FRED EMMERT	4,660.19	08-MAY-18	4,660.19	Reconciled
387493	03-MAY-18	FRONTIER CALIFORNIA INC.	271.93	15-MAY-18	271.93	Reconciled
387494	03-MAY-18	GHD INC.	26,231.50	09-MAY-18	26,231.50	Reconciled

IRWD Ledger Upgrade  
 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								
387495		03-MAY-18	GIERLICH-MITCHELL, INC.		8,453.66	09-MAY-18	8,453.66	Reconciled
387496		03-MAY-18	GM SAGER CONSTRUCTION CO, INC.		56,000.00	11-MAY-18	56,000.00	Reconciled
387497		03-MAY-18	GRAINGER		15,852.69	10-MAY-18	15,852.69	Reconciled
387498		03-MAY-18	HACH COMPANY		1,707.15	10-MAY-18	1,707.15	Reconciled
387499		03-MAY-18	HARRINGTON INDUSTRIAL PLASTICS LLC		14,905.52	09-MAY-18	14,905.52	Reconciled
387500		03-MAY-18	HELPMATES STAFFING SERVICES		23,612.70	09-MAY-18	23,612.70	Reconciled
387501		03-MAY-18	HILL BROTHERS CHEMICAL COMPANY		9,935.61	10-MAY-18	9,935.61	Reconciled
387502		03-MAY-18	HILLEBRECHT, WARREN K		381.98	10-MAY-18	381.98	Reconciled
387503		03-MAY-18	HOME DEPOT USA INC		1,063.69	11-MAY-18	1,063.69	Reconciled
387504		03-MAY-18	HORIZON TECHNOLOGY INC		145.93	10-MAY-18	145.93	Reconciled
387505		03-MAY-18	HUGHES, CATHERINE		18.37			Negotiable
387506		03-MAY-18	IBM CORPORATION		3,201.00	10-MAY-18	3,201.00	Reconciled
387507		03-MAY-18	IDEXX DISTRIBUTION, INC		6,796.02	09-MAY-18	6,796.02	Reconciled
387508		03-MAY-18	INDUSTRIAL METAL SUPPLY CO		18.62	10-MAY-18	18.62	Reconciled
387509		03-MAY-18	INLAND KENWORTH (US) INC		784.15	10-MAY-18	784.15	Reconciled
387510		03-MAY-18	INTERNATIONAL BIRD RESCUE		1,500.00	11-MAY-18	1,500.00	Reconciled
387511		03-MAY-18	IRVINE PIPE & SUPPLY INC		1,985.09	08-MAY-18	1,985.09	Reconciled
387512		03-MAY-18	JAIN, ARUN		82.28			Negotiable
387513		03-MAY-18	JANARAGHI, MAJID		107.90	14-MAY-18	107.90	Reconciled
387514		03-MAY-18	JIMNI SYSTEMS INC		763.48	11-MAY-18	763.48	Reconciled
387515		03-MAY-18	JIN, LI		13.40	14-MAY-18	13.40	Reconciled
387516		03-MAY-18	KIM, JUDY		162.77	10-MAY-18	162.77	Reconciled
387517		03-MAY-18	KIM, KISUNG		172.93	10-MAY-18	172.93	Reconciled
387518		03-MAY-18	KLEINFELDER, INC.		4,987.38	10-MAY-18	4,987.38	Reconciled
387519		03-MAY-18	KOELLER NEBEKER CARLSON & HALUCK, LLP		326.93	09-MAY-18	326.93	Reconciled
387520		03-MAY-18	LANDCARE HOLDINGS, INC.		39,413.00	11-MAY-18	39,413.00	Reconciled
387521		03-MAY-18	LENNA, DOUG		16.94	11-MAY-18	16.94	Reconciled
387522		03-MAY-18	LEWIS, RALPH		181.09	23-MAY-18	181.09	Reconciled
387523		03-MAY-18	LINNELL, HARRY T		188.74	16-MAY-18	188.74	Reconciled

IRWD Ledger Upgrade  
 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								
387524		03-MAY-18	LUTZ-JESCO AMERICA CORPORATION		1,964.69	11-MAY-18	1,964.69	Reconciled
387525		03-MAY-18	MACARONI GRILL, 444500 MS 15		64.87	21-MAY-18	64.87	Reconciled
387526		03-MAY-18	MAROVISH, ERIC		242.91	14-MAY-18	242.91	Reconciled
387527		03-MAY-18	MARVIN GARDENS LLC		1,252.56	07-MAY-18	1,252.56	Reconciled
387528		03-MAY-18	MBC APPLIED ENVIRONMENTAL SCIENCES		1,300.00	11-MAY-18	1,300.00	Reconciled

387529	03-MAY-18	MBF CONSULTING, INC.	19,626.46	16-MAY-18	19,626.46	Reconciled
387530	03-MAY-18	MBK ENGINEERS	10,662.50	10-MAY-18	10,662.50	Reconciled
387531	03-MAY-18	MC FADDEN-DALE INDUSTRIAL	83.51	09-MAY-18	83.51	Reconciled
387532	03-MAY-18	MC MASTER CARR SUPPLY CO	222.81	10-MAY-18	222.81	Reconciled
387533	03-MAY-18	MDT INC	13,228.00	24-MAY-18	13,228.00	Reconciled
387534	03-MAY-18	MERRIMAC PETROLEUM, INC.	37,197.66	09-MAY-18	37,197.66	Reconciled
387535	03-MAY-18	MESA HAMLET HOA	2,457.29	16-MAY-18	2,457.29	Reconciled
387536	03-MAY-18	MICHAEL BAKER INTERNATIONAL, INC.	26,556.59	10-MAY-18	26,556.59	Reconciled
387537	03-MAY-18	MOBILE MODULAR MANAGEMENT CORPORATION	1,018.24	09-MAY-18	1,018.24	Reconciled
387538	03-MAY-18	MONTES, VERONICA	25.26	16-MAY-18	25.26	Reconciled
387539	03-MAY-18	MRO ELECTRIC & SUPPLY CO.	1,195.00	14-MAY-18	1,195.00	Reconciled
387540	03-MAY-18	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	1,607.00	09-MAY-18	1,607.00	Reconciled
387541	03-MAY-18	MUTUAL PROPANE	10.01	09-MAY-18	10.01	Reconciled
387542	03-MAY-18	MYERS & SONS HI-WAY SAFETY, INC.	475.72	09-MAY-18	475.72	Reconciled
387543	03-MAY-18	NATIONAL READY MIXED CONCRETE CO.	2,106.86	10-MAY-18	2,106.86	Reconciled
387544	03-MAY-18	NINYO & MOORE	8,593.25	09-MAY-18	8,593.25	Reconciled
387545	03-MAY-18	NORMAN A. OLSSON CONSTRUCTION, INC.	116,363.60	14-MAY-18	116,363.60	Reconciled
387546	03-MAY-18	O.C. SUPERIOR CUSTOM CLEANING SERVICES	4,312.00	10-MAY-18	4,312.00	Reconciled
387547	03-MAY-18	OLIN CORPORATION	20,755.10	10-MAY-18	20,755.10	Reconciled
387548	03-MAY-18	ONESOURCE DISTRIBUTORS LLC	11,081.25	09-MAY-18	11,081.25	Reconciled

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
387549		03-MAY-18	ORANGE COUNTY AUTO PARTS CO		218.97	09-MAY-18	218.97	Reconciled
387550		03-MAY-18	ORANGE COUNTY FIRE AUTHORITY		548.00	09-MAY-18	548.00	Reconciled
387551		03-MAY-18	ORANGE COUNTY SANITATION DISTRICT		97,570.00	08-MAY-18	97,570.00	Reconciled
387552		03-MAY-18	PACE ADVANCED WATER ENGINEERING, INC.		8,060.00	15-MAY-18	8,060.00	Reconciled
387553		03-MAY-18	PACIFIC GAS AND ELECTRIC COMPANY		72.43	10-MAY-18	72.43	Reconciled
387554		03-MAY-18	PAYNE & FEARS LLP		10,323.00	09-MAY-18	10,323.00	Reconciled
387555		03-MAY-18	PELLETIER & ASSOCIATES, INC.		770.00	08-MAY-18	770.00	Reconciled
387556		03-MAY-18	PONTON INDUSTRIES INC		4,020.50	18-MAY-18	4,020.50	Reconciled
387557		03-MAY-18	PRESTON, SONIA		694.60	01-JUN-18	694.60	Reconciled
387558		03-MAY-18	PRUDENTIAL OVERALL SUPPLY		764.25	08-MAY-18	764.25	Reconciled
387559		03-MAY-18	PTI SAND & GRAVEL INC		1,080.67	09-MAY-18	1,080.67	Reconciled
387560		03-MAY-18	PURE EFFECT INC		5,945.00	10-MAY-18	5,945.00	Reconciled
387561		03-MAY-18	QUICK MANUFACTURING INC		1,341.98	09-MAY-18	1,341.98	Reconciled
387562		03-MAY-18	RAM AIR ENGINEERING INC		7,194.31	08-MAY-18	7,194.31	Reconciled
387563		03-MAY-18	REGENCY CENTERS		451.56			Negotiable
387564		03-MAY-18	RELIABLE WATER SOLUTIONS, LLC		9,822.56	14-MAY-18	9,822.56	Reconciled
387565		03-MAY-18	RELIANCE SAFETY CONSULTANTS, INC.		5,000.00	21-MAY-18	5,000.00	Reconciled
387566		03-MAY-18	RESTEK CORPORATION		92.31	10-MAY-18	92.31	Reconciled
387567		03-MAY-18	RICHARD C. SLADE & ASSOCIATES LLC		9,791.46	21-MAY-18	9,791.46	Reconciled
387568		03-MAY-18	RIELLY, RANDA		624.78	21-MAY-18	624.78	Reconciled
387569		03-MAY-18	RINCON TRUCK CENTER INC.		6,799.44	08-MAY-18	6,799.44	Reconciled
387570		03-MAY-18	RMC WATER AND ENVIRONMENT		14,803.75	10-MAY-18	14,803.75	Reconciled
387571		03-MAY-18	RS HUGHES COMPANY, INC.		2,566.61	09-MAY-18	2,566.61	Reconciled
387572		03-MAY-18	S & J SUPPLY CO INC		19,619.95	09-MAY-18	19,619.95	Reconciled
387573		03-MAY-18	SAFETY-KLEEN SYSTEMS, INC		345.85	09-MAY-18	345.85	Reconciled

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Payment Document : IRWD CHECK								
387574		03-MAY-18	SAN LEON APTS		35.72	31-MAY-18	35.72	Reconciled
387575		03-MAY-18	SANTA MARGARITA FORD		58.37	14-MAY-18	58.37	Reconciled
387576		03-MAY-18	SHAMROCK SUPPLY CO INC		251.02	10-MAY-18	251.02	Reconciled
387577		03-MAY-18	SOUTH BAY FOUNDRY, INC		21,711.63	11-MAY-18	21,711.63	Reconciled
387578		03-MAY-18	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		2,314.98	10-MAY-18	2,314.98	Reconciled
387579		03-MAY-18	SOUTHERN CALIFORNIA EDISON COMPANY		498,520.48	10-MAY-18	498,520.48	Reconciled
387580		03-MAY-18	SUEZ TREATMENT SOLUTIONS INC.		20,900.94	10-MAY-18	20,900.94	Reconciled
387581		03-MAY-18	THE FURMAN GROUP, INC.		12,540.00	14-MAY-18	12,540.00	Reconciled
387582		03-MAY-18	THE SPRINGS CONDO ASSN		19,471.65	09-MAY-18	19,471.65	Reconciled
387583		03-MAY-18	THYSSENKRUPP ELEVATOR CORPORATION		191.94	10-MAY-18	191.94	Reconciled
387584		03-MAY-18	TOTAL RESOURCE MANAGEMENT, INC.		43,724.80	14-MAY-18	43,724.80	Reconciled
387585		03-MAY-18	TROPICAL PLAZA NURSERY INC		4,958.00	09-MAY-18	4,958.00	Reconciled
387586		03-MAY-18	TRUCPARCO		987.96	16-MAY-18	987.96	Reconciled
387587		03-MAY-18	ULTRA SCIENTIFIC		833.75	11-MAY-18	833.75	Reconciled
387588		03-MAY-18	UNITED PARCEL SERVICE INC		184.02	09-MAY-18	184.02	Reconciled
387589		03-MAY-18	UNITED STATES PLASTIC CORP.		445.53	14-MAY-18	445.53	Reconciled
387590		03-MAY-18	UNITED STATES POST OFFICE		25,000.00	18-MAY-18	25,000.00	Reconciled
387591		03-MAY-18	UNIVAR USA INC		3,426.45	09-MAY-18	3,426.45	Reconciled
387592		03-MAY-18	US BANK NAT'L ASSOC N.DAKOTA		10,356.16	10-MAY-18	10,356.16	Reconciled
387593		03-MAY-18	VERIZON WIRELESS SERVICES LLC		12,302.14	10-MAY-18	12,302.14	Reconciled
387594		03-MAY-18	VULCAN MATERIALS COMPANY		1,824.06	09-MAY-18	1,824.06	Reconciled
387595		03-MAY-18	VWR INTERNATIONAL, LLC		70.55	10-MAY-18	70.55	Reconciled
387596		03-MAY-18	WALTERS WHOLESALE ELECTRIC		116.02	09-MAY-18	116.02	Reconciled
387597		03-MAY-18	WARE MALCOMB		460.00	08-MAY-18	460.00	Reconciled

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Payment Document : IRWD CHECK								
387598		03-MAY-18	WASTE MANAGEMENT OF ORANGE COUNTY		1,851.55	10-MAY-18	1,851.55	Reconciled
387599		03-MAY-18	WAXIE'S ENTERPRISES, INC		334.79	09-MAY-18	334.79	Reconciled
387600		03-MAY-18	WECK LABORATORIES INC		466.00	14-MAY-18	466.00	Reconciled
387601		03-MAY-18	WEST COAST SAFETY SUPPLY INC		7,086.93	17-MAY-18	7,086.93	Reconciled
387602		03-MAY-18	WESTERN EXTERMINATOR COMPANY		8,617.50	11-MAY-18	8,617.50	Reconciled
387603		03-MAY-18	WESTERN SAFETY PRODUCTS INC		6,512.65	11-MAY-18	6,512.65	Reconciled
387604		03-MAY-18	WETLANDS AND WILDLIFE CARE CENTER		3,500.00	11-MAY-18	3,500.00	Reconciled
387605		03-MAY-18	WOODRUFF, SPRADLIN & SMART APC		918.00	09-MAY-18	918.00	Reconciled
387606		03-MAY-18	WORKFORCE SAFETY LLC		1,492.00	11-MAY-18	1,492.00	Reconciled
387607		03-MAY-18	ZEE MEDICAL SERVICE CO		608.48	08-MAY-18	608.48	Reconciled
387608		03-MAY-18	ZEN, YING		145.62	15-MAY-18	145.62	Reconciled
387609		08-MAY-18	IRWD-PETTY CASH CUSTODIAN	IRVINE	1,333.15	08-MAY-18	1,333.15	Reconciled
387610		08-MAY-18	JCI JONES CHEMICALS INC	NEWARK	5,446.00	15-MAY-18	5,446.00	Reconciled
387611		10-MAY-18	Compton, Christine		290.73	29-MAY-18	290.73	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
387612	10-MAY-18	Do, Thu-Tam T (Thu-Tam)			125.00	10-MAY-18	125.00	Reconciled
387613	10-MAY-18	Fournier, Tanja L (Tanja)			53.53	17-MAY-18	53.53	Reconciled
387614	10-MAY-18	Lao, Richard S			1,661.40	10-MAY-18	1,661.40	Reconciled
387615	10-MAY-18	Malloy, Steven L (Steven)			30.00	11-MAY-18	30.00	Reconciled
387616	10-MAY-18	Midstokke, Paige			466.19	11-MAY-18	466.19	Reconciled
387617	10-MAY-18	Moeder, Jacob J (Jacob)			115.00	17-MAY-18	115.00	Reconciled
387618	10-MAY-18	Mori, Richard K (Rich)			115.00	10-MAY-18	115.00	Reconciled
387619	10-MAY-18	Oldewage, Lars D (Lars)			307.37	14-MAY-18	307.37	Reconciled
387620	10-MAY-18	Perez, David M (David)			118.51	17-MAY-18	118.51	Reconciled

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Payment Document : IRWD CHECK								
387621	10-MAY-18	A STITCH ON TIME.COM			1,186.22			Negotiable
387622	10-MAY-18	ABAM, FARDOSA			421.21			Negotiable
387623	10-MAY-18	ABUZAINEH, SUHA			28.36	22-MAY-18	28.36	Reconciled
387624	10-MAY-18	ADT SECURITY SERVICES INC			175.80	16-MAY-18	175.80	Reconciled
387625	10-MAY-18	AEGIS ENGINEERING MANAGEMENT, INC.			27,492.00	16-MAY-18	27,492.00	Reconciled
387626	10-MAY-18	AERZEN USA CORPORATION			4,826.09	15-MAY-18	4,826.09	Reconciled
387627	10-MAY-18	ALEXANDER'S CONTRACT SERVICES, INC.			117,011.31	16-MAY-18	117,011.31	Reconciled
387628	10-MAY-18	ALL STAR GLASS			365.30	14-MAY-18	365.30	Reconciled
387629	10-MAY-18	ALLIANT INSURANCE SERVICES, INC			33,300.00	16-MAY-18	33,300.00	Reconciled
387630	10-MAY-18	ALPHA TRAFFIC SERVICES, INC.			1,340.00	14-MAY-18	1,340.00	Reconciled
387631	10-MAY-18	AMERICAN TRUCK & TRAILER BODY SANTA ANA LLC			12,391.25	16-MAY-18	12,391.25	Reconciled
387632	10-MAY-18	APEX LIFE SCIENCES, LLC			2,446.06	16-MAY-18	2,446.06	Reconciled
387633	10-MAY-18	APPLIED MEMBRANES INC			5,699.06	15-MAY-18	5,699.06	Reconciled
387634	10-MAY-18	ARI INDUSTRIES			998.86	14-MAY-18	998.86	Reconciled
387635	10-MAY-18	ASHFORD, WALT			313.42	15-MAY-18	313.42	Reconciled
387636	10-MAY-18	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA			35,167.73	18-MAY-18	35,167.73	Reconciled
387637	10-MAY-18	AT&T			1,099.80	15-MAY-18	1,099.80	Reconciled
387638	10-MAY-18	ATHENS SERVICES			977.25	15-MAY-18	977.25	Reconciled
387639	10-MAY-18	AUTOZONE PARTS, INC.			1,544.29	17-MAY-18	1,544.29	Reconciled
387640	10-MAY-18	BANK OF AMERICA			25,397.70	16-MAY-18	25,397.70	Reconciled
387641	10-MAY-18	BARNES, LISA			11.75	15-MAY-18	11.75	Reconciled
387642	10-MAY-18	BATTERIES PLUS AND BATTERIES PLUS BULBS			1,024.86	14-MAY-18	1,024.86	Reconciled
387643	10-MAY-18	BECK, ZAWER			119.62	14-MAY-18	119.62	Reconciled
387644	10-MAY-18	BEST DRILLING AND PUMP, INC.			157,082.50	17-MAY-18	157,082.50	Reconciled
387645	10-MAY-18	BLACK & VEATCH CORPORATION			326,740.33	17-MAY-18	326,740.33	Reconciled
387646	10-MAY-18	BLAIRS TOWING INC			650.00	17-MAY-18	650.00	Reconciled

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
387647	10-MAY-18	BRENNTAG PACIFIC INC			22,429.84	16-MAY-18	22,429.84	Reconciled
387648	10-MAY-18	BRITHINEE ELECTRIC			18,769.17	16-MAY-18	18,769.17	Reconciled
387649	10-MAY-18	BROADCOM LTD			1,363.20			Negotiable
387650	10-MAY-18	BROWN AND CALDWELL			7,179.18	14-MAY-18	7,179.18	Reconciled
387651	10-MAY-18	BRUCE NEWELL			3,750.00	15-MAY-18	3,750.00	Reconciled
387652	10-MAY-18	C WELLS PIPELINE MATERIALS INC			5,482.33	22-MAY-18	5,482.33	Reconciled
387653	10-MAY-18	CALIFORNIA BARRICADE RENTAL, INC.			4,262.74	16-MAY-18	4,262.74	Reconciled

387654	10-MAY-18	CALIFORNIA EARTH TRANSPORT, INC.	2,168.81	15-MAY-18	2,168.81	Reconciled
387655	10-MAY-18	CALIFORNIA STATE UNIVERSITY, FULLERTON	5,600.00	17-MAY-18	5,600.00	Reconciled
387656	10-MAY-18	CANON FINANCIAL SERVICES, INC	1,312.40	15-MAY-18	1,312.40	Reconciled
387657	10-MAY-18	CANON SOLUTIONS AMERICA, INC.	133.03	15-MAY-18	133.03	Reconciled
387658	10-MAY-18	CANTU, AL	18.49			Negotiable
387659	10-MAY-18	CDW GOVERNMENT LLC	217.29	17-MAY-18	217.29	Reconciled
387660	10-MAY-18	CERTIFIED TRANSPORTATION	781.47	16-MAY-18	781.47	Reconciled
387661	10-MAY-18	CHEM TECH INTERNATIONAL INC	13,868.80	21-MAY-18	13,868.80	Reconciled
387662	10-MAY-18	CHO DESIGN ASSOCIATES, INC	18,400.00	17-MAY-18	18,400.00	Reconciled
387663	10-MAY-18	CITY OF IRVINE	9,037.80	14-MAY-18	9,037.80	Reconciled
387664	10-MAY-18	CITY OF ORANGE	177.08	15-MAY-18	177.08	Reconciled
387665	10-MAY-18	CIVIL SOURCE, INC.	78,444.00	22-MAY-18	78,444.00	Reconciled
387666	10-MAY-18	CIVIL SOURCE, INC.	4,142.50	16-MAY-18	4,142.50	Reconciled
387667	10-MAY-18	CLARK, SHARON	33.61	16-MAY-18	33.61	Reconciled
387668	10-MAY-18	CONDE DE CRUZ, MARIA	79.00	14-MAY-18	79.00	Reconciled
387669	10-MAY-18	CONSOLIDATED CONTRACTING SERVICES, INC.	824.71	15-MAY-18	824.71	Reconciled
387670	10-MAY-18	COTTONS POINT DESIGN, INC.	1,100.00	14-MAY-18	1,100.00	Reconciled
387671	10-MAY-18	CR & R INCORPORATED	384.48	15-MAY-18	384.48	Reconciled
387672	10-MAY-18	CRESCENT CHEMICAL CO.	372.36	15-MAY-18	372.36	Reconciled
387673	10-MAY-18	CULLIGAN OF SANTA ANA	7,000.00	16-MAY-18	7,000.00	Reconciled

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
387674		10-MAY-18	D & G SIGNS		1,182.02	17-MAY-18	1,182.02	Reconciled
387675		10-MAY-18	D & H WATER SYSTEMS INC.		1,523.13	15-MAY-18	1,523.13	Reconciled
387676		10-MAY-18	DAVIS FARR LLP		5,000.00	15-MAY-18	5,000.00	Reconciled
387677		10-MAY-18	DAVIS, CHRIS		16.78	16-MAY-18	16.78	Reconciled
387678		10-MAY-18	DEPARTMENT OF WATER RESOURCES		95,954.00	17-MAY-18	95,954.00	Reconciled
387679		10-MAY-18	DEUBLER, VENORA		18.99			Negotiable
387680		10-MAY-18	DILYTICS INC		43,175.00	17-MAY-18	43,175.00	Reconciled
387681		10-MAY-18	DISCOUNT COURIER SERVICE		91.32	14-MAY-18	91.32	Reconciled
387682		10-MAY-18	DUDEK		615.00	17-MAY-18	615.00	Reconciled
387683		10-MAY-18	EAGLE PRINT DYNAMICS		635.32	15-MAY-18	635.32	Reconciled
387684		10-MAY-18	EARL, ERIKA		110.61			Negotiable
387685		10-MAY-18	ESPERANZA APARTMENTS		870.24	31-MAY-18	870.24	Reconciled
387686		10-MAY-18	EVANTEC CORPORATION		4,441.46	14-MAY-18	4,441.46	Reconciled
387687		10-MAY-18	EXECUTIVE LIGHTING & ELECTRIC		8,878.31	15-MAY-18	8,878.31	Reconciled
387688		10-MAY-18	FAIRBANK, MASLIN, MAULLIN, METZ & ASSOC. INC.		21,330.00	18-MAY-18	21,330.00	Reconciled
387689		10-MAY-18	FARRELL & ASSOCIATES		2,319.73	14-MAY-18	2,319.73	Reconciled
387690		10-MAY-18	FEDEX		315.23	15-MAY-18	315.23	Reconciled
387691		10-MAY-18	FEIS, DAN		7.80	14-MAY-18	7.80	Reconciled
387692		10-MAY-18	FIDELITY SECURITY LIFE INSURANCE COMPANY		7,086.65	21-MAY-18	7,086.65	Reconciled
387693		10-MAY-18	FIRE EXTINGUISHING SAFETY & SERVICE		447.29	15-MAY-18	447.29	Reconciled
387694		10-MAY-18	FISERV		294.35	14-MAY-18	294.35	Reconciled
387695		10-MAY-18	FISHER SCIENTIFIC COMPANY LLC		2,347.51	15-MAY-18	2,347.51	Reconciled
387696		10-MAY-18	FLEXIBLE LIFELINE SYSTEMS		28,040.00	18-MAY-18	28,040.00	Reconciled
387697		10-MAY-18	FREEWAY MACHINE & WELDING SHOP		100.00	15-MAY-18	100.00	Reconciled
387698		10-MAY-18	FUSCOE ENGINEERING, INC.		7,620.77	14-MAY-18	7,620.77	Reconciled
387699		10-MAY-18	GALIPEAU, KIRSTIE		55.37	15-MAY-18	55.37	Reconciled
387700		10-MAY-18	GRAINGER		5,675.64	15-MAY-18	5,675.64	Reconciled
387701		10-MAY-18	GRAYBAR ELECTRIC COMPANY		2,124.00	15-MAY-18	2,124.00	Reconciled

IRWD Ledger Upgrade Payment Register For 01-MAY-18 To 31-MAY-18 Report Date: 04-JUN-2018 08:53  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 11  
 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								
387702		10-MAY-18	GROCERY OUTLET INC		81.60			Negotiable
387703		10-MAY-18	HARRINGTON INDUSTRIAL PLASTICS LLC		3,289.85	14-MAY-18	3,289.85	Reconciled
387704		10-MAY-18	HARRY H. KOBZEFF		880.00	16-MAY-18	880.00	Reconciled
387705		10-MAY-18	HDR ENGINEERING INC		15,536.29	17-MAY-18	15,536.29	Reconciled
387706		10-MAY-18	HEGNESS, PAUL		62.14	01-JUN-18	62.14	Reconciled
387707		10-MAY-18	HELP/SYSTEMS, LLC		5,600.00	14-MAY-18	5,600.00	Reconciled
387708		10-MAY-18	HELPMATES STAFFING SERVICES		20,228.64	16-MAY-18	20,228.64	Reconciled
387709		10-MAY-18	HILL BROTHERS CHEMICAL COMPANY		2,160.00	16-MAY-18	2,160.00	Reconciled
387710		10-MAY-18	HOME DEPOT USA INC		3,465.86	16-MAY-18	3,465.86	Reconciled
387711		10-MAY-18	HOMSY, BRIAN		1,440.00	14-MAY-18	1,440.00	Reconciled
387712		10-MAY-18	HORIZON UNDERGROUND INC		1,616.68	14-MAY-18	1,616.68	Reconciled
387713		10-MAY-18	HUMANA INSURANCE COMPANY		73.80	15-MAY-18	73.80	Reconciled
387714		10-MAY-18	HYDRO INTERNATIONAL		13,269.87	21-MAY-18	13,269.87	Reconciled
387715		10-MAY-18	IBM CORPORATION		77,813.10	17-MAY-18	77,813.10	Reconciled
387716		10-MAY-18	INTEGRITY IT SOLUTIONS INC.		2,200.00	15-MAY-18	2,200.00	Reconciled
387717		10-MAY-18	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47		1,445.00	21-MAY-18	1,445.00	Reconciled
387718		10-MAY-18	IRVINE PACIFIC		1,264.24	17-MAY-18	1,264.24	Reconciled
387719		10-MAY-18	IRVINE PIPE & SUPPLY INC		2,715.61	14-MAY-18	2,715.61	Reconciled
387720		10-MAY-18	JCI JONES CHEMICALS INC		8,640.25	16-MAY-18	8,640.25	Reconciled
387721		10-MAY-18	JOHN MICHAEL COVAS		208.70	29-MAY-18	208.70	Reconciled
387722		10-MAY-18	K. HOVNIANIAN		344.23	16-MAY-18	344.23	Reconciled
387723		10-MAY-18	KAYUGA SOLUTION INC		9,860.00	15-MAY-18	9,860.00	Reconciled
387724		10-MAY-18	KELLY, WILLIAM		19.84	16-MAY-18	19.84	Reconciled
387725		10-MAY-18	KLEINFELDER, INC.		1,968.88	16-MAY-18	1,968.88	Reconciled
387726		10-MAY-18	KRONICK MOSKOVITZ TIEDEMANN & GIRARD		14,178.66	17-MAY-18	14,178.66	Reconciled
387727		10-MAY-18	KUSUMOTO, SADAHEI		32.70	29-MAY-18	32.70	Reconciled
387728		10-MAY-18	LAM, CONG		35.52	15-MAY-18	35.52	Reconciled
387729		10-MAY-18	LAMBECK, DIANE		46.73	22-MAY-18	46.73	Reconciled
387730		10-MAY-18	LEE, HYEKYONG		44.17			Negotiable
387731		10-MAY-18	LEE, MARSHA		12.97	18-MAY-18	12.97	Reconciled

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 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								
387732		10-MAY-18	LEWIS BRISBOIS BISGAARD AND SMITH, LLP		280.00	16-MAY-18	280.00	Reconciled
387733		10-MAY-18	LI, ANDREW		1,522.85	14-MAY-18	1,522.85	Reconciled
387734		10-MAY-18	LO, THIERRY		37.38	29-MAY-18	37.38	Reconciled
387735		10-MAY-18	LUXIAO, JINGYI		31.60	01-JUN-18	31.60	Reconciled
387736		10-MAY-18	MAURRAY, MAURICE		125.00			Negotiable
387737		10-MAY-18	MC MASTER CARR SUPPLY CO		848.99	14-MAY-18	848.99	Reconciled
387738		10-MAY-18	MISSION COMMUNICATIONS, LLC		1,126.80	16-MAY-18	1,126.80	Reconciled
387739		10-MAY-18	MOODY'S INVESTORS SERVICE INC		7,500.00	15-MAY-18	7,500.00	Reconciled
387740		10-MAY-18	MOTIVE ENERGY TELECOMMUNICATION GROUP		1,386.39	17-MAY-18	1,386.39	Reconciled
387741		10-MAY-18	MR CRANE INC		1,163.70	14-MAY-18	1,163.70	Reconciled
387742		10-MAY-18	MUNICIPAL MAINTENANCE EQUIPMENT INC		3,347.40	15-MAY-18	3,347.40	Reconciled
387743		10-MAY-18	NATIONAL READY MIXED CONCRETE CO.		554.92	14-MAY-18	554.92	Reconciled
387744		10-MAY-18	NATURALWELL, LLC		1,265.00	14-MAY-18	1,265.00	Reconciled
387745		10-MAY-18	NATURES IMAGE INC		2,912.34	15-MAY-18	2,912.34	Reconciled
387746		10-MAY-18	NMG GEOTECHNICAL INC		43,153.90	31-MAY-18	43,153.90	Reconciled
387747		10-MAY-18	NOBLE-JONES, ROSIE		144.80			Negotiable
387748		10-MAY-18	NOVACOAST INC		1,837.50	14-MAY-18	1,837.50	Reconciled
387749		10-MAY-18	O'CONNELL, PATRICK		615.62	23-MAY-18	615.62	Reconciled

387750	10-MAY-18	OLIN CORPORATION	31,849.68	17-MAY-18	31,849.68	Reconciled
387751	10-MAY-18	OMEGA INDUSTRIAL SUPPLY, INC.	223.01	14-MAY-18	223.01	Reconciled
387752	10-MAY-18	ONESOURCE DISTRIBUTORS LLC	42.02	15-MAY-18	42.02	Reconciled
387753	10-MAY-18	ORACLE AMERICA, INC.	21,017.13	18-MAY-18	21,017.13	Reconciled
387754	10-MAY-18	ORANGE COUNTY COASTKEEPER	2,500.00	30-MAY-18	2,500.00	Reconciled
387755	10-MAY-18	ORANGE COUNTY SANITATION DISTRICT	122,054.13	16-MAY-18	122,054.13	Reconciled
387756	10-MAY-18	ORANGE COUNTY SHERIFF'S OFFICE	224.50	15-MAY-18	224.50	Reconciled
387757	10-MAY-18	ORANGE COUNTY TREASURER	3,200.00	15-MAY-18	3,200.00	Reconciled

IRWD Ledger Upgrade Payment Register For 01-MAY-18 To 31-MAY-18 Report Date: 04-JUN-2018 08:53  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 13  
 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								
387758		10-MAY-18	PACE ADVANCED WATER ENGINEERING, INC.		3,620.00	15-MAY-18	3,620.00	Reconciled
387759		10-MAY-18	PAPER DEPOT DOCUMENT DESTRUCTION LLC		516.00	18-MAY-18	516.00	Reconciled
387760		10-MAY-18	PARKHOUSE TIRE INC		135.77	15-MAY-18	135.77	Reconciled
387761		10-MAY-18	PASCAL & LUDWIG CONSTRUCTORS		396,844.79	16-MAY-18	396,844.79	Reconciled
387762		10-MAY-18	PASCAL & LUDWIG CONSTRUCTORS		20,886.57	16-MAY-18	20,886.57	Reconciled
387763		10-MAY-18	PERKINELMER HEALTH SCIENCES INC		711.40	16-MAY-18	711.40	Reconciled
387764		10-MAY-18	PERS LONG TERM CARE		675.35	14-MAY-18	675.35	Reconciled
387765		10-MAY-18	POLLARDWATER.COM		974.87	15-MAY-18	974.87	Reconciled
387766		10-MAY-18	PRAXAIR DISTRIBUTION INC		115.95	15-MAY-18	115.95	Reconciled
387767		10-MAY-18	PRUDENTIAL OVERALL SUPPLY		5,570.38	14-MAY-18	5,570.38	Reconciled
387768		10-MAY-18	PSOMAS		5,627.00	16-MAY-18	5,627.00	Reconciled
387769		10-MAY-18	QUINTANA, SONIA		35.47			Negotiable
387770		10-MAY-18	R&B AUTOMATION, INC.		6,285.01	14-MAY-18	6,285.01	Reconciled
387771		10-MAY-18	RAINBOW DISPOSAL CO INC		357.36	17-MAY-18	357.36	Reconciled
387772		10-MAY-18	RAM AIR ENGINEERING INC		16,288.10	17-MAY-18	16,288.10	Reconciled
387773		10-MAY-18	RANCHO ALISAL APTS		82.47	31-MAY-18	82.47	Reconciled
387774		10-MAY-18	RANCHO MARIPOSA APTS		42.88	31-MAY-18	42.88	Reconciled
387775		10-MAY-18	REACH EMPLOYEE ASSISTANCE INC		1,010.80	16-MAY-18	1,010.80	Reconciled
387776		10-MAY-18	REAL WATER CONSULTANTS INC.		31,758.00	18-MAY-18	31,758.00	Reconciled
387777		10-MAY-18	REFRIGERATION SUPPLIES DISTRIBUTOR		374.58	14-MAY-18	374.58	Reconciled
387778		10-MAY-18	RELIANCE SAFETY CONSULTANTS, INC.		9,515.00	29-MAY-18	9,515.00	Reconciled
387779		10-MAY-18	REYNOLDS, JASON		46.92	15-MAY-18	46.92	Reconciled
387780		10-MAY-18	ROSA, GISELE		42.68	14-MAY-18	42.68	Reconciled
387781		10-MAY-18	S & J SUPPLY CO INC		57,889.60	16-MAY-18	57,889.60	Reconciled
387782		10-MAY-18	SAFETY-KLEEN SYSTEMS, INC		1,058.24	15-MAY-18	1,058.24	Reconciled

IRWD Ledger Upgrade Payment Register For 01-MAY-18 To 31-MAY-18 Report Date: 04-JUN-2018 08:53  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 14  
 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								
387783		10-MAY-18	SAN MARCO APARTMENTS		47.02	31-MAY-18	47.02	Reconciled
387784		10-MAY-18	SANTA ANA BLUE PRINT		5,538.32	21-MAY-18	5,538.32	Reconciled
387785		10-MAY-18	SANTA MARGARITA FORD		564.06	14-MAY-18	564.06	Reconciled
387786		10-MAY-18	SANTA MARGARITA WATER DISTRICT		100.12	16-MAY-18	100.12	Reconciled
387787		10-MAY-18	SCHINDLER ELEVATOR CORPORATION		202.95	17-MAY-18	202.95	Reconciled
387788		10-MAY-18	SHAMROCK SUPPLY CO		627.18	15-MAY-18	627.18	Reconciled

387789	10-MAY-18	INC SIMI VALLEY LANDFILL AND RECYCLING CENTER	731.14	15-MAY-18	731.14	Reconciled
387790	10-MAY-18	SING, SIGMUND	207.68	22-MAY-18	207.68	Reconciled
387791	10-MAY-18	SIRIUS COMPUTER SOLUTIONS INC	316,855.80	21-MAY-18	316,855.80	Reconciled
387792	10-MAY-18	SKORUZ	18,684.00	17-MAY-18	18,684.00	Reconciled
387793	10-MAY-18	TECHNOLOGIES INC SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	128.61	15-MAY-18	128.61	Reconciled
387794	10-MAY-18	SOUTH COAST ANSWERING SERVICE	658.33	15-MAY-18	658.33	Reconciled
387795	10-MAY-18	SOUTH COAST WATER CO.	90.00	18-MAY-18	90.00	Reconciled
387796	10-MAY-18	SOUTHERN CALIFORNIA EDISON COMPANY	11,807.33	14-MAY-18	11,807.33	Reconciled
387797	10-MAY-18	SOUTHERN CALIFORNIA GAS COMPANY	795.98	17-MAY-18	795.98	Reconciled
387798	10-MAY-18	SPARKLETTTS	284.44	18-MAY-18	284.44	Reconciled
387799	10-MAY-18	SPATIAL WAVE, INC.	3,148.30	14-MAY-18	3,148.30	Reconciled
387800	10-MAY-18	STANDARD & POOR'S FINANCIAL SERVICES LLC	5,000.00	15-MAY-18	5,000.00	Reconciled
387801	10-MAY-18	SUKLE ADVERTISING INC.	67.63	21-MAY-18	67.63	Reconciled
387802	10-MAY-18	SULLY-MILLER CONTRACTING CO.	47,479.39	16-MAY-18	47,479.39	Reconciled
387803	10-MAY-18	SUN, LI	28.14	23-MAY-18	28.14	Reconciled
387804	10-MAY-18	SUN, LI	32.36	16-MAY-18	32.36	Reconciled
387805	10-MAY-18	SUSAN A. SIROTA	4,395.00	15-MAY-18	4,395.00	Reconciled
387806	10-MAY-18	T AND L PROPERTIES	83.91			Negotiable

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 15  
 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								
387807	10-MAY-18	TALLEY INC	835.96	15-MAY-18	835.96	Reconciled		
387808	10-MAY-18	TETRA TECH, INC	1,950.00	14-MAY-18	1,950.00	Reconciled		
387809	10-MAY-18	THE NEW HOME COMPANY SOUTHERN CALIFORNIA LLC	174.42	31-MAY-18	174.42	Reconciled		
387810	10-MAY-18	THERMO ELECTRON NORTH AMERICA LLC	1,077.00	14-MAY-18	1,077.00	Reconciled		
387811	10-MAY-18	THOMPSON	46.16	15-MAY-18	46.16	Reconciled		
387812	10-MAY-18	INDUSTRIAL SUPPLY TOTAL RESOURCE MANAGEMENT, INC.	82,180.00	18-MAY-18	82,180.00	Reconciled		
387813	10-MAY-18	TOTALFUNDS	3,003.00	21-MAY-18	3,003.00	Reconciled		
387814	10-MAY-18	TRAFFIC CONTROL ENGINEERING, INC	10,000.00	31-MAY-18	10,000.00	Reconciled		
387815	10-MAY-18	TRI POINTE HOMES, INC.	211.23	18-MAY-18	211.23	Reconciled		
387816	10-MAY-18	TRIPAC MARKETING INC	950.07	15-MAY-18	950.07	Reconciled		
387817	10-MAY-18	TROPICAL PLAZA NURSERY INC	44,042.85	16-MAY-18	44,042.85	Reconciled		
387818	10-MAY-18	TRUCPARCO	3,307.01	16-MAY-18	3,307.01	Reconciled		
387819	10-MAY-18	ULINE INC	216.92	18-MAY-18	216.92	Reconciled		
387820	10-MAY-18	ULTRA SCIENTIFIC	155.10	18-MAY-18	155.10	Reconciled		
387821	10-MAY-18	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA	1,379.50	22-MAY-18	1,379.50	Reconciled		
387822	10-MAY-18	UNITED HEALTHCARE INSURANCE COMPANY	245.85	17-MAY-18	245.85	Reconciled		
387823	10-MAY-18	UNITED PARCEL SERVICE INC	116.96	15-MAY-18	116.96	Reconciled		
387824	10-MAY-18	UNITED STATES POST OFFICE	1,580.00	22-MAY-18	1,580.00	Reconciled		
387825	10-MAY-18	UY, IRENE	23.31	21-MAY-18	23.31	Reconciled		
387826	10-MAY-18	VAN LINGEN, PAUL AND MAGALI	496.71	17-MAY-18	496.71	Reconciled		
387827	10-MAY-18	VAUGHAN'S INDUSTRIAL REPAIR CO INC	17,593.69	16-MAY-18	17,593.69	Reconciled		
387828	10-MAY-18	VERIZON WIRELESS SERVICES LLC	699.33	14-MAY-18	699.33	Reconciled		
387829	10-MAY-18	VIRTUAL GRAFFITI, INC.	1,105.52	14-MAY-18	1,105.52	Reconciled		
387830	10-MAY-18	VULCAN INDUSTRIES INC	53,013.00	17-MAY-18	53,013.00	Reconciled		

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



387875	17-MAY-18	ABM INDUSTRY GROUPS, LLC		18,915.01	23-MAY-18	18,915.01	Reconciled
387876	17-MAY-18	ADS LLC		2,160.00	24-MAY-18	2,160.00	Reconciled
387877	17-MAY-18	AGUIRRE, VANESSA		29.29	31-MAY-18	29.29	Reconciled
387878	17-MAY-18	AGUSTSSON, TAKAKO		20.83			Negotiable
387879	17-MAY-18	AIR RESOURCES BOARD		5,391.00	23-MAY-18	5,391.00	Reconciled
387880	17-MAY-18	AIRGAS, INC.		853.38	23-MAY-18	853.38	Reconciled
387881	17-MAY-18	ALPHA TRAFFIC SERVICES, INC.		1,560.00	23-MAY-18	1,560.00	Reconciled
387882	17-MAY-18	AMERICAN WATER WORKS ASSOC		10,159.00	29-MAY-18	10,159.00	Reconciled
387883	17-MAY-18	ANTHEM BLUE CROSS		546.33	24-MAY-18	546.33	Reconciled
387884	17-MAY-18	ANTHEM BLUE CROSS		546.33	24-MAY-18	546.33	Reconciled
387885	17-MAY-18	ANTHEM BLUE CROSS		214.68	24-MAY-18	214.68	Reconciled

IRWD Ledger Upgrade  
 BANK: Bank of America N.A. Branch : Los Angeles  
 Bank Account Currency: USD ( US Dollar )  
 Payment Type: All

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 Payment Currency: USD ( US Dollar )  
 Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
387886		17-MAY-18	ANTHEM BLUE CROSS		290.43	24-MAY-18	290.43	Reconciled
387887		17-MAY-18	ANUKORNCHAIKUL, SOMCHAI		36.52			Negotiable
387888		17-MAY-18	APEX LIFE SCIENCES, LLC		2,380.00	29-MAY-18	2,380.00	Reconciled
387889		17-MAY-18	APPALA, RANJITH		68.64	24-MAY-18	68.64	Reconciled
387890		17-MAY-18	ARB STRUCTURES, INC.		922.30	24-MAY-18	922.30	Reconciled
387891		17-MAY-18	AT&T		5,153.77	29-MAY-18	5,153.77	Reconciled
387892		17-MAY-18	AT&T		1,844.59	24-MAY-18	1,844.59	Reconciled
387893		17-MAY-18	AT&T		49.05	25-MAY-18	49.05	Reconciled
387894		17-MAY-18	ATHENS SERVICES		7,023.93	24-MAY-18	7,023.93	Reconciled
387895		17-MAY-18	AUTOZONE PARTS, INC.		123.48	25-MAY-18	123.48	Reconciled
387896		17-MAY-18	BATTERIES PLUS AND BATTERIES PLUS BULBS		1,340.17	23-MAY-18	1,340.17	Reconciled
387897		17-MAY-18	BEHBEHANI, SHERI		27.00			Negotiable
387898		17-MAY-18	BENDIX, ALEXA		158.04			Negotiable
387899		17-MAY-18	BEYER, DANIELLE		389.05	24-MAY-18	389.05	Reconciled
387900		17-MAY-18	BILL'S SWEEPING SERVICE INC		460.00	25-MAY-18	460.00	Reconciled
387901		17-MAY-18	BOKHARI, MARYAM		119.99	24-MAY-18	119.99	Reconciled
387902		17-MAY-18	BROWN AND CALDWELL		14,101.43	24-MAY-18	14,101.43	Reconciled
387903		17-MAY-18	BROWN, JUSTIN		36.20			Negotiable
387904		17-MAY-18	C WELLS PIPELINE MATERIALS INC		53,633.64	30-MAY-18	53,633.64	Reconciled
387905		17-MAY-18	CALATLANTIC GROUP, INC.		270.12	31-MAY-18	270.12	Reconciled
387906		17-MAY-18	CALIFORNIA BARRICADE RENTAL, INC.		3,047.50	25-MAY-18	3,047.50	Reconciled
387907		17-MAY-18	CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION		1,577.00			Negotiable
387908		17-MAY-18	CALIFORNIA PACIFIC HOMES		206.92	29-MAY-18	206.92	Reconciled
387909		17-MAY-18	CALTRANS DISTRICT 12		10.10			Negotiable
387910		17-MAY-18	CANON SOLUTIONS AMERICA, INC.		52.93	24-MAY-18	52.93	Reconciled
387911		17-MAY-18	CAROLLO ENGINEERS, INC		47,967.15	29-MAY-18	47,967.15	Reconciled
387912		17-MAY-18	CATENA MOUNTAIN CAPITAL		72.30	01-JUN-18	72.30	Reconciled

IRWD Ledger Upgrade  
 BANK: Bank of America N.A. Branch : Los Angeles  
 Bank Account Currency: USD ( US Dollar )  
 Payment Type: All

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 Account: Checking AP and PR Page: 19  
 Payment Currency: USD ( US Dollar )  
 Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
387913		17-MAY-18	CDB INVESTMENTS, L.P.		567.29			Negotiable
387914		17-MAY-18	CHARLES P CROWLEY COMPANY INC		39,197.42	23-MAY-18	39,197.42	Reconciled
387915		17-MAY-18	CHEM TECH INTERNATIONAL INC		6,934.40	29-MAY-18	6,934.40	Reconciled
387916		17-MAY-18	CHEN, ANGELIEN		12.95	25-MAY-18	12.95	Reconciled
387917		17-MAY-18	CHEUNG, DESMOND		34.06	25-MAY-18	34.06	Reconciled
387918		17-MAY-18	CHIEN, JULIE		38.34			Negotiable
387919		17-MAY-18	CHUANG, MICHELLE		49.78			Negotiable
387920		17-MAY-18	CHUNG, CHENYU		67.30			Negotiable
387921		17-MAY-18	CITY OF IRVINE		7,329.40	23-MAY-18	7,329.40	Reconciled



387922	17-MAY-18	CITY OF IRVINE	10,682.60				Negotiable
387923	17-MAY-18	CITY OF SANTA ANA	98.01	23-MAY-18		98.01	Reconciled
387924	17-MAY-18	CITY OF TUSTIN	511,506.16	24-MAY-18		511,506.16	Reconciled
387925	17-MAY-18	CLA-VAL COMPANY	4,229.07	23-MAY-18		4,229.07	Reconciled
387926	17-MAY-18	COMMERCIAL DOOR OF ORANGE COUNTY, INC.	3,847.64	24-MAY-18		3,847.64	Reconciled
387927	17-MAY-18	COWAN, C.RICHARD	49.73	29-MAY-18		49.73	Reconciled
387928	17-MAY-18	CULLIGAN OF SANTA ANA	5,000.00	24-MAY-18		5,000.00	Reconciled
387929	17-MAY-18	DANG, GUNEETA	15.61				Negotiable
387930	17-MAY-18	DANIAL, GEORGINA	10.73				Negotiable
387931	17-MAY-18	DAVIS, SANDRA	31.70				Negotiable
387932	17-MAY-18	DING, JUN	33.18				Negotiable
387933	17-MAY-18	DPR CONSTRUCTION	343.35	31-MAY-18		343.35	Reconciled
387934	17-MAY-18	DUNCAN, DAVID	208.93				Negotiable
387935	17-MAY-18	EAGLE PRINT DYNAMICS	5,984.81	23-MAY-18		5,984.81	Reconciled
387936	17-MAY-18	EATON, MERIAL	22.98	31-MAY-18		22.98	Reconciled
387937	17-MAY-18	ECOLOGY CONTROL INDUSTRIES	3,441.59	24-MAY-18		3,441.59	Reconciled
387938	17-MAY-18	EDUCATION & TRAINING SERVICES, LLC	1,996.00	31-MAY-18		1,996.00	Reconciled
387939	17-MAY-18	ENVIRONMENTAL RESOURCE ASSOCIATES	4,515.01	25-MAY-18		4,515.01	Reconciled
387940	17-MAY-18	ENVIRONMENTAL SCIENCE ASSOCIATES	2,602.55	25-MAY-18		2,602.55	Reconciled
387941	17-MAY-18	EXECUTIVE LIGHTING & ELECTRIC	8,504.62	23-MAY-18		8,504.62	Reconciled
387942	17-MAY-18	FARRELL & ASSOCIATES	3,206.86	23-MAY-18		3,206.86	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 20  
 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								
387943		17-MAY-18	FARWEST CORROSION CONTROL COMPANY		759.27	23-MAY-18	759.27	Reconciled
387944		17-MAY-18	FEDEX		370.03	23-MAY-18	370.03	Reconciled
387945		17-MAY-18	FEHLMAN, HENRY		64.12	29-MAY-18	64.12	Reconciled
387946		17-MAY-18	FERGUSON ENTERPRISES, INC.		9,794.48	24-MAY-18	9,794.48	Reconciled
387947		17-MAY-18	FIONA HUTTON & ASSOCIATES, INC.		19,762.21	23-MAY-18	19,762.21	Reconciled
387948		17-MAY-18	FIRST CHOICE SERVICES		57.18	24-MAY-18	57.18	Reconciled
387949		17-MAY-18	FISERV		288.35	23-MAY-18	288.35	Reconciled
387950		17-MAY-18	FISHER SCIENTIFIC COMPANY LLC		1,749.71	23-MAY-18	1,749.71	Reconciled
387951		17-MAY-18	FRONTIER CALIFORNIA INC.		318.80	29-MAY-18	318.80	Reconciled
387952		17-MAY-18	FUSCOE ENGINEERING, INC.		701.64	23-MAY-18	701.64	Reconciled
387953		17-MAY-18	GARZA INDUSTRIES, INC		1,335.68	23-MAY-18	1,335.68	Reconciled
387954		17-MAY-18	GENTERRA CONSULTANTS INC		1,676.00	24-MAY-18	1,676.00	Reconciled
387955		17-MAY-18	GEORGE HILLS COMPANY, INC.		204.00	29-MAY-18	204.00	Reconciled
387956		17-MAY-18	GJ AUTOMOTIVE EQUIPMENT CO INC		97.90	25-MAY-18	97.90	Reconciled
387957		17-MAY-18	GOPICHAND, TUMMALA		49.49	23-MAY-18	49.49	Reconciled
387958		17-MAY-18	GRAINGER		16,111.14	24-MAY-18	16,111.14	Reconciled
387959		17-MAY-18	GRANDHI, SIRRAM		54.30			Negotiable
387960		17-MAY-18	GRAVITEC SYSTEMS, INC		152.65	25-MAY-18	152.65	Reconciled
387961		17-MAY-18	GREATER IRVINE CHAMBER OF COMMERCE		1,600.00	23-MAY-18	1,600.00	Reconciled
387962		17-MAY-18	GRUBER, ROE		38.77	30-MAY-18	38.77	Reconciled
387963		17-MAY-18	GUMMI, SUDHARMA		55.64			Negotiable
387964		17-MAY-18	HAAKER EQUIPMENT COMPANY		3,079.45	25-MAY-18	3,079.45	Reconciled
387965		17-MAY-18	HACH COMPANY		23,506.64	24-MAY-18	23,506.64	Reconciled
387966		17-MAY-18	HAIHUA, BAO		19.59			Negotiable
387967		17-MAY-18	HANSON, JOHN		38.78	24-MAY-18	38.78	Reconciled
387968		17-MAY-18	HARMSWORTH ASSOCIATES		1,590.00	29-MAY-18	1,590.00	Reconciled
387969		17-MAY-18	HARRINGTON INDUSTRIAL PLASTICS LLC		5,435.12	23-MAY-18	5,435.12	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								
387970		17-MAY-18	HDR ENGINEERING INC		75,278.25	24-MAY-18	75,278.25	Reconciled
387971		17-MAY-18	HELPMATES STAFFING SERVICES		21,426.05	23-MAY-18	21,426.05	Reconciled
387972		17-MAY-18	HENDRIE, SARAH		22.87	29-MAY-18	22.87	Reconciled
387973		17-MAY-18	HERC RENTALS INC.		2,865.08	25-MAY-18	2,865.08	Reconciled
387974		17-MAY-18	HETTIG, EMERI		90.91	25-MAY-18	90.91	Reconciled
387975		17-MAY-18	HILL BROTHERS CHEMICAL COMPANY		9,349.19	25-MAY-18	9,349.19	Reconciled
387976		17-MAY-18	HOME DEPOT USA INC		88.10	25-MAY-18	88.10	Reconciled
387977		17-MAY-18	HOUGLAND, ANDREA		92.44	30-MAY-18	92.44	Reconciled
387978		17-MAY-18	HOYA OPTICAL LABS OF AMERICA, INC.		424.36	29-MAY-18	424.36	Reconciled
387979		17-MAY-18	HUANG, QINGYUE		28.46	25-MAY-18	28.46	Reconciled
387980		17-MAY-18	HYDRANAUTICS		4,081.70	23-MAY-18	4,081.70	Reconciled
387981		17-MAY-18	IEM CORPORATION		925.00	29-MAY-18	925.00	Reconciled
387982		17-MAY-18	INSOGNA, DEBBIE		27.12	25-MAY-18	27.12	Reconciled
387983		17-MAY-18	IRVINE PIPE & SUPPLY INC		983.67	23-MAY-18	983.67	Reconciled
387984		17-MAY-18	IRWD-PETTY CASH CUSTODIAN		826.07	21-MAY-18	826.07	Reconciled
387985		17-MAY-18	IVANITSKI, ELENA		36.07	25-MAY-18	36.07	Reconciled
387986		17-MAY-18	JCI JONES CHEMICALS INC		2,627.63	29-MAY-18	2,627.63	Reconciled
387987		17-MAY-18	JIG CONSULTANTS		3,521.66	29-MAY-18	3,521.66	Reconciled
387988		17-MAY-18	KANG, TED		369.33			Negotiable
387989		17-MAY-18	KARIMI, MAHYAR		49.20			Negotiable
387990		17-MAY-18	KASRA, CYRUS		32.36	29-MAY-18	32.36	Reconciled
387991		17-MAY-18	KB HOMES		145.57			Negotiable
387992		17-MAY-18	KELLER, SUSAN		57.52			Negotiable
387993		17-MAY-18	KERHART, LISA		51.11			Negotiable
387994		17-MAY-18	KEYTRAK		5,333.57	25-MAY-18	5,333.57	Reconciled
387995		17-MAY-18	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES		1,525.00	23-MAY-18	1,525.00	Reconciled
387996		17-MAY-18	KIM, SARAH J		26.41	01-JUN-18	26.41	Reconciled
387997		17-MAY-18	KOELLER NEBEKER CARLSON & HALUCK, LLP		1,660.00	23-MAY-18	1,660.00	Reconciled
387998		17-MAY-18	LANDCARE HOLDINGS, INC.		8,226.70	29-MAY-18	8,226.70	Reconciled
387999		17-MAY-18	LCS TECHNOLOGIES, INC.		2,565.00	29-MAY-18	2,565.00	Reconciled
388000		17-MAY-18	LE, SARAH		15.53			Negotiable
388001		17-MAY-18	LENNAR HOMES		224.88	31-MAY-18	224.88	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 22  
 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								
388002		17-MAY-18	LEWIS BRISBOIS BISGAARD AND SMITH, LLP		362.95	23-MAY-18	362.95	Reconciled
388003		17-MAY-18	LI, TIAN		276.98			Negotiable
388004		17-MAY-18	LIN, SEN R		43.74			Negotiable
388005		17-MAY-18	LIU MD PHD, BENJAMIN		59.67			Negotiable
388006		17-MAY-18	LUBRICATION ENGINEERS, INC.		3,212.75	24-MAY-18	3,212.75	Reconciled
388007		17-MAY-18	LUND, PENNY		17.70			Negotiable
388008		17-MAY-18	M. CUBED		5,202.50	25-MAY-18	5,202.50	Reconciled
388009		17-MAY-18	MA, JIEMING		23.66	29-MAY-18	23.66	Reconciled
388010		17-MAY-18	MACATEE, WILLAIM		33.28	23-MAY-18	33.28	Reconciled
388011		17-MAY-18	MAILFINANCE INC		10,909.74	29-MAY-18	10,909.74	Reconciled
388012		17-MAY-18	MATTINGLY, CHARLOTTE A		31.25			Negotiable
388013		17-MAY-18	MBK ENGINEERS		2,012.50	24-MAY-18	2,012.50	Reconciled
388014		17-MAY-18	MC MASTER CARR SUPPLY CO		199.65	24-MAY-18	199.65	Reconciled
388015		17-MAY-18	MCKENNA, TIM		91.70	29-MAY-18	91.70	Reconciled
388016		17-MAY-18	MIAO, GINGQUING		50.00			Negotiable
388017		17-MAY-18	MICHAEL BAKER INTERNATIONAL, INC.		886.50	24-MAY-18	886.50	Reconciled
388018		17-MAY-18	MOHOS, KRISTINA		54.52			Negotiable
388019		17-MAY-18	MOTENKO, STACEY		37.08	25-MAY-18	37.08	Reconciled
388020		17-MAY-18	MOTOKADO, RYOKO		38.45			Negotiable
388021		17-MAY-18	MRO ELECTRIC & SUPPLY CO.		595.00	30-MAY-18	595.00	Reconciled
388022		17-MAY-18	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY		5,357.96	24-MAY-18	5,357.96	Reconciled
388023		17-MAY-18	MUNOZ, MARIANNA		26.20			Negotiable
388024		17-MAY-18	MURRAY, DOUGLAS M		36.02	30-MAY-18	36.02	Reconciled

388025	17-MAY-18	NAQVI, FARZANA		22.99				Negotiable
388026	17-MAY-18	NATIONAL READY MIXED CONCRETE CO.		465.43	23-MAY-18		465.43	Reconciled
388027	17-MAY-18	NGUYEN, DANNY		79.09	29-MAY-18		79.09	Reconciled
388028	17-MAY-18	NOBLE-JONES, ROSIE		144.80				Negotiable
388029	17-MAY-18	NORTHWOOD PLACE APTS		18.21				Negotiable
388030	17-MAY-18	OCEAN BLUE ENVIRONMENTAL SERVICES INC		12,297.92	24-MAY-18		12,297.92	Reconciled
388031	17-MAY-18	OCTA		1,120.00	24-MAY-18		1,120.00	Reconciled
388032	17-MAY-18	OLIN CORPORATION		25,350.54	24-MAY-18		25,350.54	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								
388033		17-MAY-18	ONESOURCE		1,255.34	23-MAY-18	1,255.34	Reconciled
388034		17-MAY-18	DISTRIBUTORS LLC		64,890.00	21-MAY-18	64,890.00	Reconciled
388035		17-MAY-18	ORANGE COUNTY WATER DISTRICT		28,316.00	21-MAY-18	28,316.00	Reconciled
388036		17-MAY-18	OWENS, JAMES		38.48	29-MAY-18	38.48	Reconciled
388037		17-MAY-18	PACIFIC GAS AND ELECTRIC COMPANY		74.52	25-MAY-18	74.52	Reconciled
388038		17-MAY-18	PACIFIC HYDROTECH CORPORATION		15,651.96	23-MAY-18	15,651.96	Reconciled
388039		17-MAY-18	PACIFIC HYDROTECH CORPORATION		499,890.03	25-MAY-18	499,890.03	Reconciled
388040		17-MAY-18	PARK, ESTHER		32.70			Negotiable
388041		17-MAY-18	PARKHOUSE TIRE INC		10,210.92	24-MAY-18	10,210.92	Reconciled
388042		17-MAY-18	PARKWAY LAWNMOWER SHOP		17.60	23-MAY-18	17.60	Reconciled
388043		17-MAY-18	PASCAL & LUDWIG CONSTRUCTORS		6,599.34	23-MAY-18	6,599.34	Reconciled
388044		17-MAY-18	PASCAL & LUDWIG CONSTRUCTORS		125,387.43	23-MAY-18	125,387.43	Reconciled
388045		17-MAY-18	PEREZ, CONSUELO		387.30			Negotiable
388046		17-MAY-18	PEW, TESSA		30.34	23-MAY-18	30.34	Reconciled
388047		17-MAY-18	PHAN, ANDRE		28.00	24-MAY-18	28.00	Reconciled
388048		17-MAY-18	PHONE, LILY		25.00	30-MAY-18	25.00	Reconciled
388049		17-MAY-18	PILLSBURY WINTHROP SHAW PITTMAN LLP		455.00	24-MAY-18	455.00	Reconciled
388050		17-MAY-18	PINNACLE TOWERS LLC		720.39	24-MAY-18	720.39	Reconciled
388051		17-MAY-18	PIVOT INTERIORS INC		814.68	24-MAY-18	814.68	Reconciled
388052		17-MAY-18	POLITISKI, JACKIE B		61.50			Negotiable
388053		17-MAY-18	POLLARDWATER.COM		14,450.57	24-MAY-18	14,450.57	Reconciled
388054		17-MAY-18	PRAXAIR DISTRIBUTION INC		1,082.46	23-MAY-18	1,082.46	Reconciled
388055		17-MAY-18	PROCARE WORK INJURY CENTER		1,715.00	29-MAY-18	1,715.00	Reconciled
388056		17-MAY-18	PSOMAS		2,242.50	24-MAY-18	2,242.50	Reconciled
388057		17-MAY-18	PTI SAND & GRAVEL INC		1,097.28	25-MAY-18	1,097.28	Reconciled
388058		17-MAY-18	R.D. OLSON CONSTRUCTION		94.30	30-MAY-18	94.30	Reconciled
388059		17-MAY-18	R. J. NOBLE COMPANY		1,073.80	25-MAY-18	1,073.80	Reconciled
388060		17-MAY-18	RANCHO MARIPOSA APTS		14.42			Negotiable

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
388061		17-MAY-18	RANCHO SILVERADO STABLES, LLC		948.20	24-MAY-18	948.20	Reconciled
388062		17-MAY-18	REFRIGERATION SUPPLIES DISTRIBUTOR		85.17	23-MAY-18	85.17	Reconciled
388063		17-MAY-18	RELIANCE SAFETY CONSULTANTS, INC.		7,163.99	01-JUN-18	7,163.99	Reconciled
388064		17-MAY-18	RINGCLEAR LLC		115.92	25-MAY-18	115.92	Reconciled
388065		17-MAY-18	ROSEN, ANNETTE		32.70	24-MAY-18	32.70	Reconciled
388066		17-MAY-18	SAMUEL HSIEH AND HENRY HSIEH		51.09	25-MAY-18	51.09	Reconciled
388067		17-MAY-18	SANTA ANA BLUE PRINT		196.09	25-MAY-18	196.09	Reconciled
388068		17-MAY-18	SANTA MARGARITA FORD		76.51	24-MAY-18	76.51	Reconciled

388069	17-MAY-18	SAVAGE, WILLIAM	46.36				Negotiable
388070	17-MAY-18	SCOTT, JUSTIN	33.22	29-MAY-18		33.22	Reconciled
388071	17-MAY-18	SEAL ANALYTICAL INC	1,321.30	25-MAY-18		1,321.30	Reconciled
388072	17-MAY-18	SECURITAS SECURITY SERVICES USA, INC.	49,381.43	23-MAY-18		49,381.43	Reconciled
388073	17-MAY-18	SEELEY, SCOTT	34.10	29-MAY-18		34.10	Reconciled
388074	17-MAY-18	SEPARATION PROCESSES INC	1,363.50	23-MAY-18		1,363.50	Reconciled
388075	17-MAY-18	SHAMROCK SUPPLY CO INC	92.32	24-MAY-18		92.32	Reconciled
388076	17-MAY-18	SHEA HOMES, LIMITED PARTNERSHIP	54.94				Negotiable
388077	17-MAY-18	SHI, LIJIA	41.59	31-MAY-18		41.59	Reconciled
388078	17-MAY-18	SITMATIC	4,095.63	24-MAY-18		4,095.63	Reconciled
388079	17-MAY-18	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	1,543.32	24-MAY-18		1,543.32	Reconciled
388080	17-MAY-18	SOUTHERN CALIFORNIA EDISON COMPANY	2,602.20	23-MAY-18		2,602.20	Reconciled
388081	17-MAY-18	SOUTHERN CALIFORNIA EDISON COMPANY	464,327.61	23-MAY-18		464,327.61	Reconciled
388082	17-MAY-18	SOUTHERN CALIFORNIA GAS COMPANY	3,667.78	24-MAY-18		3,667.78	Reconciled
388083	17-MAY-18	SOUTHERN COUNTIES LUBRICANTS LLC	3,048.62	24-MAY-18		3,048.62	Reconciled
388084	17-MAY-18	SPENCER, KATHY	21.00				Negotiable

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
388085		17-MAY-18	SS MECHANICAL CONSTRUCTION CORP		23,487.13	25-MAY-18	23,487.13	Reconciled
388086		17-MAY-18	STANTEC CONSULTING SERVICES INC.		1,234.00	24-MAY-18	1,234.00	Reconciled
388087		17-MAY-18	STEVE AND MIMI SOMERMAN		1,385.61	25-MAY-18	1,385.61	Reconciled
388088		17-MAY-18	STRADLING YOCCA CARLSON & RAUTH		728.00	23-MAY-18	728.00	Reconciled
388089		17-MAY-18	SUKLE ADVERTISING INC.		17,760.00	01-JUN-18	17,760.00	Reconciled
388090		17-MAY-18	SUKUT CONTRUCTION, LLC		1,259.87	23-MAY-18	1,259.87	Reconciled
388091		17-MAY-18	TABATABAI, BITA		116.39			Negotiable
388092		17-MAY-18	TAGHDIRI, HAMID		170.81			Negotiable
388093		17-MAY-18	TANGATUE, ERNESTO S		105.26			Negotiable
388094		17-MAY-18	TAYLOR MORRISON		28.44	31-MAY-18	28.44	Reconciled
388095		17-MAY-18	TEMPLIN, PAM		50.00			Negotiable
388096		17-MAY-18	TESTAMERICA LABORATORIES, INC		612.15	25-MAY-18	612.15	Reconciled
388097		17-MAY-18	TETRA TECH, INC		33,581.25	24-MAY-18	33,581.25	Reconciled
388098		17-MAY-18	THE PARKLANDS		37.83			Negotiable
388099		17-MAY-18	THOMAS, CRISTINA		33.44			Negotiable
388100		17-MAY-18	TRI POINTE HOMES, INC.		445.68	29-MAY-18	445.68	Reconciled
388101		17-MAY-18	TROPICAL PLAZA NURSERY INC		2,646.00	24-MAY-18	2,646.00	Reconciled
388102		17-MAY-18	TRUCPARCO		907.39	25-MAY-18	907.39	Reconciled
388103		17-MAY-18	TRUONG, THIEN		63.72			Negotiable
388104		17-MAY-18	ULINE INC		1,287.20	29-MAY-18	1,287.20	Reconciled
388105		17-MAY-18	UM, BRANDON		102.99	29-MAY-18	102.99	Reconciled
388106		17-MAY-18	UNITED SITE SERVICES OF CALIFORNIA INC		630.35	24-MAY-18	630.35	Reconciled
388107		17-MAY-18	UNIVAR USA INC		9,518.64	23-MAY-18	9,518.64	Reconciled
388108		17-MAY-18	URBAN WATER INSTITUTE INC		1,250.00			Negotiable
388109		17-MAY-18	UTILITY SPECIALISTS, INC		2,279.40	30-MAY-18	2,279.40	Reconciled
388110		17-MAY-18	VAN OUWERKERK, ELLEN		38.45			Negotiable
388111		17-MAY-18	VAZQUEZ, RAMON		29.67			Negotiable
388112		17-MAY-18	VENKATARAMANAN, SUNDARARAJAN		24.76			Negotiable
388113		17-MAY-18	VWR INTERNATIONAL, LLC		1,392.52	25-MAY-18	1,392.52	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

Cleared

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
388114		17-MAY-18	WALTERS WHOLESALE ELECTRIC		11,182.30	23-MAY-18	11,182.30	Reconciled
388115		17-MAY-18	WALTERS, CINDY		37.79			Negotiable
388116		17-MAY-18	WAN, KWAI PING		55.31			Negotiable
388117		17-MAY-18	WANG, JUI-WAN		41.46			Negotiable
388118		17-MAY-18	WANG, WALTER		36.85	29-MAY-18	36.85	Reconciled
388119		17-MAY-18	WARD, WILLIAM P JR.		615.64	23-MAY-18	615.64	Reconciled
388120		17-MAY-18	WASTE MANAGEMENT OF ORANGE COUNTY		1,251.84	24-MAY-18	1,251.84	Reconciled
388121		17-MAY-18	WATERLINE TECHNOLOGIES INC		2,840.00	23-MAY-18	2,840.00	Reconciled
388122		17-MAY-18	WAXIE'S ENTERPRISES, INC		226.89	23-MAY-18	226.89	Reconciled
388123		17-MAY-18	WECK LABORATORIES INC		783.00	29-MAY-18	783.00	Reconciled
388124		17-MAY-18	WEI, MINGFEN		60.05	25-MAY-18	60.05	Reconciled
388125		17-MAY-18	WEST YOST ASSOCIATES, INC		4,578.00	25-MAY-18	4,578.00	Reconciled
388126		17-MAY-18	WESTAMERICA COMMUNICATIONS, INC.		2,873.25	23-MAY-18	2,873.25	Reconciled
388127		17-MAY-18	WINDWOOD GLEN		44.08			Negotiable
388128		17-MAY-18	WORKFORCE SAFETY LLC		2,572.00	25-MAY-18	2,572.00	Reconciled
388129		17-MAY-18	XIE, NIANFEI		33.40			Negotiable
388130		17-MAY-18	YOUSSEF, DIAA		72.03	23-MAY-18	72.03	Reconciled
388131		17-MAY-18	ZHOU, CHAOLING		39.02	25-MAY-18	39.02	Reconciled
388132		17-MAY-18	ZIGLER, WILLIAM		14.71	30-MAY-18	14.71	Reconciled
388133		17-MAY-18	ZUWAWA, ABDELGADIR		9.50	25-MAY-18	9.50	Reconciled
388134		21-MAY-18	AMANE ADVISORS NORTH AMERICA CORP.	WAYNE	25,000.00	23-MAY-18	25,000.00	Reconciled
388135		24-MAY-18	Burton, Kevin L (Kevin)		31.44	25-MAY-18	31.44	Reconciled
388136		24-MAY-18	Carlos, Alex		180.00			Negotiable
388137		24-MAY-18	Castaneda, Natalie N (Natalie)		46.56	30-MAY-18	46.56	Reconciled
388138		24-MAY-18	Kessler, Christian L (Christian)		7.85	29-MAY-18	7.85	Reconciled
388139		24-MAY-18	Legault, Dan (Dan)		159.00	25-MAY-18	159.00	Reconciled
388140		24-MAY-18	Malloy, Steven L (Steven)		30.00	25-MAY-18	30.00	Reconciled
388141		24-MAY-18	Matheis, Mary Aileen		1,755.83			Negotiable

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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	Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
388142		24-MAY-18	Murphy, Alexander J (Alexander)		50.00	29-MAY-18	50.00	Reconciled
388143		24-MAY-18	AERATION INDUSTRIES INTERNATIONAL INC		1,702.24	29-MAY-18	1,702.24	Reconciled
388144		24-MAY-18	AFLAC		203.12	01-JUN-18	203.12	Reconciled
388145		24-MAY-18	AFLAC		7,064.16	01-JUN-18	7,064.16	Reconciled
388146		24-MAY-18	ALL AMERICAN SEWER TOOLS		2,308.98	29-MAY-18	2,308.98	Reconciled
388147		24-MAY-18	ALSTON & BIRD LLP		45,671.61	31-MAY-18	45,671.61	Reconciled
388148		24-MAY-18	AMERICAN WATER CHEMICALS, INC.		15,619.60	01-JUN-18	15,619.60	Reconciled
388149		24-MAY-18	ANDERSONPENNA PARTNERS, INC.		71,859.00	30-MAY-18	71,859.00	Reconciled
388150		24-MAY-18	APEX LIFE SCIENCES, LLC		2,450.00	31-MAY-18	2,450.00	Reconciled
388151		24-MAY-18	ARCADIS U.S., INC.		124,475.91	31-MAY-18	124,475.91	Reconciled
388152		24-MAY-18	AT&T		5,501.43	30-MAY-18	5,501.43	Reconciled
388153		24-MAY-18	ATKINSON, ANDELSON, LOYA, RUUD AND ROMO		2,024.00	31-MAY-18	2,024.00	Reconciled
388154		24-MAY-18	AUTOZONE PARTS, INC.		453.58	31-MAY-18	453.58	Reconciled
388155		24-MAY-18	AZRIAG, OMAR		31.32	30-MAY-18	31.32	Reconciled
388156		24-MAY-18	BATTERIES PLUS AND BATTERIES PLUS BULBS		1,592.67	29-MAY-18	1,592.67	Reconciled
388157		24-MAY-18	BDC SPECIAL WASTE		774.40	29-MAY-18	774.40	Reconciled
388158		24-MAY-18	BIOMAGIC INC		16,136.64	30-MAY-18	16,136.64	Reconciled
388159		24-MAY-18	BORCHARD SURVEYING & MAPPING, INC.		2,272.50			Negotiable
388160		24-MAY-18	BRENNTAG PACIFIC INC		3,496.49	29-MAY-18	3,496.49	Reconciled
388161		24-MAY-18	BUI, KHIEM		27.98			Negotiable
388162		24-MAY-18	BUSTOS, IVAN		115.95			Negotiable

388163	24-MAY-18	C WELLS PIPELINE MATERIALS INC	529.06	30-MAY-18	529.06	Reconciled
388164	24-MAY-18	CALATLANTIC HOMES	83.46	31-MAY-18	83.46	Reconciled
388165	24-MAY-18	CALIFORNIA BARRICADE RENTAL, INC.	8,092.50	31-MAY-18	8,092.50	Reconciled
388166	24-MAY-18	CALIFORNIA PACIFIC HOMES	469.39			Negotiable
388167	24-MAY-18	CAMERON-COLE, LLC	2,961.25	31-MAY-18	2,961.25	Reconciled
388168	24-MAY-18	CANON FINANCIAL SERVICES, INC	8,996.59	29-MAY-18	8,996.59	Reconciled

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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								
388169		24-MAY-18	CAROLLO ENGINEERS, INC		17,086.00			Negotiable
388170		24-MAY-18	CERTIFIED TRANSPORTATION		781.47	29-MAY-18	781.47	Reconciled
388171		24-MAY-18	CHAIREL CUSTOM HAY, INC.		8,246.62	30-MAY-18	8,246.62	Reconciled
388172		24-MAY-18	CHO, GINA		62.69			Negotiable
388173		24-MAY-18	CITY OF IRVINE		32.00	30-MAY-18	32.00	Reconciled
388174		24-MAY-18	CIVIL SOURCE, INC.		18,172.00			Negotiable
388175		24-MAY-18	CLEAN ENERGY		11,820.78			Negotiable
388176		24-MAY-18	CLEANTECH SERVICES, LLC		1,678.39			Negotiable
388177		24-MAY-18	COASTLINE EQUIPMENT COMPANY		238.83	29-MAY-18	238.83	Reconciled
388178		24-MAY-18	COLONIAL LIFE & ACCIDENT INSURANCE CO.		1,244.17	29-MAY-18	1,244.17	Reconciled
388179		24-MAY-18	COX COMMUNICATIONS, INC.		3,270.94	30-MAY-18	3,270.94	Reconciled
388180		24-MAY-18	D & H WATER SYSTEMS INC.		69,552.63			Negotiable
388181		24-MAY-18	DATA CLEAN CORPORATION		534.00	30-MAY-18	534.00	Reconciled
388182		24-MAY-18	DAVIS, SUZANNE		36.36	29-MAY-18	36.36	Reconciled
388183		24-MAY-18	DEACON CORP.		340.04	01-JUN-18	340.04	Reconciled
388184		24-MAY-18	DEE JASPAR & ASSOCIATES, INC.		1,523.80	31-MAY-18	1,523.80	Reconciled
388185		24-MAY-18	DEMARIA ELECTRIC MOTOR SERVICES, INC.		9,209.75	31-MAY-18	9,209.75	Reconciled
388186		24-MAY-18	DIRECTV INC		129.98	30-MAY-18	129.98	Reconciled
388187		24-MAY-18	DISCOUNT COURIER SERVICE		254.19	25-MAY-18	254.19	Reconciled
388188		24-MAY-18	DOUGLAS, PAULINE		34.85			Negotiable
388189		24-MAY-18	DUKE'S ROOT CONTROL INC		55,000.00			Negotiable
388190		24-MAY-18	DUZMAN, DORIT		355.73			Negotiable
388191		24-MAY-18	ECO SERVICES LLC		5,540.74	30-MAY-18	5,540.74	Reconciled
388192		24-MAY-18	ENTERPRISE RIDESHARE		18,890.01			Negotiable
388193		24-MAY-18	ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.		10,310.00	31-MAY-18	10,310.00	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 29  
 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								
388194		24-MAY-18	ENVIRONMENTAL RESOURCE ASSOCIATES		2,280.79	30-MAY-18	2,280.79	Reconciled
388195		24-MAY-18	EVERJOY MUSIC INC.		73.80	29-MAY-18	73.80	Reconciled
388196		24-MAY-18	EXECUTIVE LIGHTING & ELECTRIC		703.77	30-MAY-18	703.77	Reconciled
388197		24-MAY-18	FEDEX		316.31	29-MAY-18	316.31	Reconciled
388198		24-MAY-18	FIRST CHOICE SERVICES		1,029.49	30-MAY-18	1,029.49	Reconciled
388199		24-MAY-18	FISHER SCIENTIFIC COMPANY LLC		2,404.83	29-MAY-18	2,404.83	Reconciled
388200		24-MAY-18	FORESZ, ALBERT		23.88			Negotiable
388201		24-MAY-18	FRONTIER CALIFORNIA INC.		312.16	30-MAY-18	312.16	Reconciled
388202		24-MAY-18	GARCIA, LEONEL B		89.02			Negotiable
388203		24-MAY-18	GENERAL MONITORS INC.		3,433.41	29-MAY-18	3,433.41	Reconciled
388204		24-MAY-18	GJ AUTOMOTIVE		362.07	01-JUN-18	362.07	Reconciled

388205	24-MAY-18	EQUIPMENT CO INC GLENN LUKOS ASSOCIATES, INC		1,230.10	29-MAY-18	1,230.10	Reconciled
388206	24-MAY-18	GRAINGER		3,697.44	29-MAY-18	3,697.44	Reconciled
388207	24-MAY-18	GRAVITEC SYSTEMS, INC		171.66	30-MAY-18	171.66	Reconciled
388208	24-MAY-18	GRAYBAR ELECTRIC COMPANY		14,175.78	29-MAY-18	14,175.78	Reconciled
388209	24-MAY-18	GREGG OHLHAVER		1,910.40	29-MAY-18	1,910.40	Reconciled
388210	24-MAY-18	GUIDA SURVEYING INC.		1,500.00	29-MAY-18	1,500.00	Reconciled
388211	24-MAY-18	HABITAT RESTORATION SCIENCES, INC.		1,183.00	31-MAY-18	1,183.00	Reconciled
388212	24-MAY-18	HACH COMPANY		11,150.86	31-MAY-18	11,150.86	Reconciled
388213	24-MAY-18	HAMILTON, KURT		684.89			Negotiable
388214	24-MAY-18	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY		72.30	29-MAY-18	72.30	Reconciled
388215	24-MAY-18	HAZEN AND SAWYER		1,900.00	29-MAY-18	1,900.00	Reconciled
388216	24-MAY-18	HDR ENGINEERING INC		4,826.00	29-MAY-18	4,826.00	Reconciled
388217	24-MAY-18	HELPMATES STAFFING SERVICES		22,612.53	31-MAY-18	22,612.53	Reconciled
388218	24-MAY-18	HEYDORFF, BARBARA		30.32			Negotiable
388219	24-MAY-18	HOME DEPOT USA INC		1,936.19	29-MAY-18	1,936.19	Reconciled
388220	24-MAY-18	HOMSY, BRIAN		425.00	31-MAY-18	425.00	Reconciled
388221	24-MAY-18	HUANG, SHAN		74.68	30-MAY-18	74.68	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 30  
 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								
388222		24-MAY-18	HUANG, SHUXIANG		82.44			Negotiable
388223		24-MAY-18	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47		1,430.00	31-MAY-18	1,430.00	Reconciled
388224		24-MAY-18	IRON MOUNTAIN INFORMATION MANAGEMENT INC		1,428.77	29-MAY-18	1,428.77	Reconciled
388225		24-MAY-18	IRVINE PIPE & SUPPLY INC		3,532.44	25-MAY-18	3,532.44	Reconciled
388226		24-MAY-18	JIG CONSULTANTS		6,490.27	31-MAY-18	6,490.27	Reconciled
388227		24-MAY-18	JUST ENERGY SOLUTIONS INC.		70.05	29-MAY-18	70.05	Reconciled
388228		24-MAY-18	KB HOME		103.21			Negotiable
388229		24-MAY-18	KENNEDY/JENKS CONSULTANTS INC		663.47	30-MAY-18	663.47	Reconciled
388230		24-MAY-18	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES		1,000.00	29-MAY-18	1,000.00	Reconciled
388231		24-MAY-18	KIM, JINYOUNG		73.57			Negotiable
388232		24-MAY-18	KLEINFELDER, INC.		4,702.50	29-MAY-18	4,702.50	Reconciled
388233		24-MAY-18	KOYNOVA, ANNA		355.30			Negotiable
388234		24-MAY-18	LANDCARE HOLDINGS, INC.		30,091.13			Negotiable
388235		24-MAY-18	LAUREL D MALDONADO WYKES		1,310.27	29-MAY-18	1,310.27	Reconciled
388236		24-MAY-18	LENNAR HOMES		520.15	31-MAY-18	520.15	Reconciled
388237		24-MAY-18	LININGER, AARON		31.11	29-MAY-18	31.11	Reconciled
388238		24-MAY-18	LIU, JIMMY		15.18			Negotiable
388239		24-MAY-18	LUSTRE-CAL NAMEPLATE CORPORATION		2,478.85	29-MAY-18	2,478.85	Reconciled
388240		24-MAY-18	MAJEAU, TIFFANY E		52.03	30-MAY-18	52.03	Reconciled
388241		24-MAY-18	MARVIN GARDENS LLC		2,805.87	24-MAY-18	2,805.87	Reconciled
388242		24-MAY-18	MC MASTER CARR SUPPLY CO		4,048.66	29-MAY-18	4,048.66	Reconciled
388243		24-MAY-18	MERRIMAC PETROLEUM, INC.		22,471.38	31-MAY-18	22,471.38	Reconciled
388244		24-MAY-18	MERT, OVUNC		25.00			Negotiable
388245		24-MAY-18	METTLER-TOLEDO RAININ, LLC		1,006.64	29-MAY-18	1,006.64	Reconciled
388246		24-MAY-18	MICHAEL BAKER INTERNATIONAL, INC.		5,680.48	29-MAY-18	5,680.48	Reconciled
388247		24-MAY-18	MILLER, BILL		15.47			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 CHECK								

388248	24-MAY-18	MOULTON NIGUEL WATER DISTRICT	61,553.00	01-JUN-18	61,553.00	Reconciled
388249	24-MAY-18	NATIONAL READY MIXED CONCRETE CO.	2,066.48	29-MAY-18	2,066.48	Reconciled
388250	24-MAY-18	NEWPORT WINDOW MAINTENANCE INC	2,314.00	01-JUN-18	2,314.00	Reconciled
388251	24-MAY-18	NINYO & MOORE	3,112.25	29-MAY-18	3,112.25	Reconciled
388252	24-MAY-18	O'HAREN GOVERNMENT RELATIONS	6,500.00	30-MAY-18	6,500.00	Reconciled
388253	24-MAY-18	OH N3 SOUTH GATED ENTRY 37113	97.82			Negotiable
388254	24-MAY-18	OLIN CORPORATION	14,484.72	01-JUN-18	14,484.72	Reconciled
388255	24-MAY-18	OMAR DANDASHI	3,032.60			Negotiable
388256	24-MAY-18	ORANGE COUNTY AUTO PARTS CO	724.08	25-MAY-18	724.08	Reconciled
388257	24-MAY-18	ORANGE COUNTY FIRE PROTECTION	6,709.00	30-MAY-18	6,709.00	Reconciled
388258	24-MAY-18	ORANGE COUNTY SHERIFF'S OFFICE	224.50	30-MAY-18	224.50	Reconciled
388259	24-MAY-18	ORANGE COUNTY WATER DISTRICT	19,500.00	30-MAY-18	19,500.00	Reconciled
388260	24-MAY-18	PACIFIC COAST BOLT CORP	611.24	31-MAY-18	611.24	Reconciled
388261	24-MAY-18	PACIFIC PARTS & CONTROLS INC	6,662.80	31-MAY-18	6,662.80	Reconciled
388262	24-MAY-18	PAULUS ENGINEERING, INC.	54,804.26	31-MAY-18	54,804.26	Reconciled
388263	24-MAY-18	PERS LONG TERM CARE	675.35	30-MAY-18	675.35	Reconciled
388264	24-MAY-18	PRE-PAID LEGAL SERVICES INC	1,235.90	01-JUN-18	1,235.90	Reconciled
388265	24-MAY-18	PRES-TECH MANUFACTURERS' REPRESENTATIVES, INC.	8,372.18	29-MAY-18	8,372.18	Reconciled
388266	24-MAY-18	PUREWORKS, INC.	1,734.56	29-MAY-18	1,734.56	Reconciled
388267	24-MAY-18	RAM AIR ENGINEERING INC	12,382.08	30-MAY-18	12,382.08	Reconciled
388268	24-MAY-18	RCE CONSULTANTS, INC.	107,208.30			Negotiable
388269	24-MAY-18	REFRIGERATION SUPPLIES DISTRIBUTOR	6,687.90	25-MAY-18	6,687.90	Reconciled
388270	24-MAY-18	RESPONSE ENVELOPE, INC	2,618.33	30-MAY-18	2,618.33	Reconciled

IRWD Ledger Upgrade Payment Register For 01-MAY-18 To 31-MAY-18 Report Date: 04-JUN-2018 08:53  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 32  
 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								
388271		24-MAY-18	RINCON TRUCK CENTER INC.		49.86	29-MAY-18	49.86	Reconciled
388272		24-MAY-18	S&S SEEDS INC		3,183.20	30-MAY-18	3,183.20	Reconciled
388273		24-MAY-18	SAN LEON APTS		24.03			Negotiable
388274		24-MAY-18	SAN MARINO APTS		19.22			Negotiable
388275		24-MAY-18	SANDERS PAVING INC		23,092.00	31-MAY-18	23,092.00	Reconciled
388276		24-MAY-18	SANTA MARGARITA FORD		268.11	29-MAY-18	268.11	Reconciled
388277		24-MAY-18	SANTA MARGARITA WATER DISTRICT		45,798.12	01-JUN-18	45,798.12	Reconciled
388278		24-MAY-18	SIEMENS INDUSTRY INC		5,400.00	30-MAY-18	5,400.00	Reconciled
388279		24-MAY-18	SIGBAND, ERIKA		34.85	31-MAY-18	34.85	Reconciled
388280		24-MAY-18	SNYDER LANGSTON L. P.		2,559.42	01-JUN-18	2,559.42	Reconciled
388281		24-MAY-18	SOUTH BAY FOUNDRY, INC		1,064.37	01-JUN-18	1,064.37	Reconciled
388282		24-MAY-18	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		3,177.50			Negotiable
388283		24-MAY-18	SOUTHERN CALIFORNIA EDISON COMPANY		109,980.18	29-MAY-18	109,980.18	Reconciled
388284		24-MAY-18	SOUTHERN CALIFORNIA EDISON COMPANY		6,100.00	30-MAY-18	6,100.00	Reconciled
388285		24-MAY-18	SOUTHERN CALIFORNIA EDISON COMPANY		3,500.00	30-MAY-18	3,500.00	Reconciled
388286		24-MAY-18	SOUTHERN CALIFORNIA EDISON COMPANY		1.22	25-MAY-18	1.22	Reconciled
388287		24-MAY-18	SOUTHERN CALIFORNIA SECURITY CENTERS, INC.		178.40	31-MAY-18	178.40	Reconciled
388288		24-MAY-18	SPX CORP		186.79	29-MAY-18	186.79	Reconciled
388289		24-MAY-18	STANTEC CONSULTING SERVICES INC.		9,280.00	29-MAY-18	9,280.00	Reconciled





			APPARATUS & VALVE COMPANY					
388331		30-MAY-18	BENOWTIZ, CARRIE		56.58			Negotiable
388332		30-MAY-18	BENTLEY KERR AND MERCEDES KERR		70.68			Negotiable
388333		30-MAY-18	BERK, SUSAN		10,000.00			Negotiable
388334		30-MAY-18	BIGHAM, ALIDA		41.26			Negotiable
388335		30-MAY-18	BILL'S SWEEPING SERVICE INC		1,050.00			Negotiable
388336		30-MAY-18	BIRDAL, MUSA		214.45			Negotiable
388337		30-MAY-18	BLACK & VEATCH CORPORATION		287,872.84			Negotiable
388338		30-MAY-18	BLATT, DAVID		151.55			Negotiable
388339		30-MAY-18	BLOOM, SHANNON		42.79			Negotiable
388340		30-MAY-18	CALIFORNIA BARRICADE RENTAL, INC.		2,740.00			Negotiable
388341		30-MAY-18	CANON SOLUTIONS AMERICA, INC.		468.06			Negotiable
388342		30-MAY-18	CARDIAC SCIENCE CORPORATION		7,093.45			Negotiable
388343		30-MAY-18	CERSOSIMO, ELAINE		46.59			Negotiable
388344		30-MAY-18	CHAPMAN, WADE		31.18			Negotiable
388345		30-MAY-18	CHEN, ALLAN		18.33			Negotiable

IRWD Ledger Upgrade  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Report Date: 04-JUN-2018 08:53  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar ) Page: 35  
 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								
388346		30-MAY-18	CITY OF NEWPORT BEACH		1,237.60			Negotiable
388347		30-MAY-18	CITY OF TUSTIN		258,255.84			Negotiable
388348		30-MAY-18	CONSOLIDATED CONTRACTING SERVICES, INC.		1,312.15			Negotiable
388349		30-MAY-18	COX COMMUNICATIONS, INC.		129.94			Negotiable
388350		30-MAY-18	CRESTWOOD APARTMENTS		1,901.41			Negotiable
388351		30-MAY-18	D & H WATER SYSTEMS INC.		46,770.88			Negotiable
388352		30-MAY-18	D.R. HORTON		49.17			Negotiable
388353		30-MAY-18	DAVIS FARR LLP		2,000.00			Negotiable
388354		30-MAY-18	DB INDUSTRIAL SUPPLY CO		1,481.44			Negotiable
388355		30-MAY-18	DIRECTV INC		125.53			Negotiable
388356		30-MAY-18	EBRAHIM, MONA		387.92			Negotiable
388357		30-MAY-18	EDWARDS, CURTIS		41.33			Negotiable
388358		30-MAY-18	EMEDCO		1,090.92			Negotiable
388359		30-MAY-18	EVANS-HYDRO INC		40,936.25			Negotiable
388360		30-MAY-18	FEDEX		344.99			Negotiable
388361		30-MAY-18	FIELDS, CATHY		175.71			Negotiable
388362		30-MAY-18	FIRE EXTINGUISHING SAFETY & SERVICE		864.98			Negotiable
388363		30-MAY-18	FRONTIER CALIFORNIA INC.		272.07			Negotiable
388364		30-MAY-18	GHRABEIGIE, GEORGE		208.05			Negotiable
388365		30-MAY-18	GRAINGER		2,898.36			Negotiable
388366		30-MAY-18	GRAYBAR ELECTRIC COMPANY		9,355.76			Negotiable
388367		30-MAY-18	HACH COMPANY		2,907.92			Negotiable
388368		30-MAY-18	HARBISON, ROBERT		14.19			Negotiable
388369		30-MAY-18	HELPMATES STAFFING SERVICES		17,422.37			Negotiable
388370		30-MAY-18	HILL BROTHERS CHEMICAL COMPANY		7,224.22			Negotiable
388371		30-MAY-18	HORIZON TECHNOLOGY INC		217.21			Negotiable
388372		30-MAY-18	HYAS GROUP, LLC		15,000.00			Negotiable
388373		30-MAY-18	IRVINE PIPE & SUPPLY INC		1,528.36			Negotiable
388374		30-MAY-18	IRWD-PETTY CASH CUSTODIAN		973.19	31-MAY-18	973.19	Reconciled

IRWD Ledger Upgrade  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Report Date: 04-JUN-2018 08:53  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar ) Page: 36  
 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								
388375		30-MAY-18	JACKSON TIDUS, A LAW CORPORATION		3,948.00			Negotiable
388376		30-MAY-18	JCI JONES		5,255.25			Negotiable

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
388377		30-MAY-18	CHEMICALS INC JIN, WEIDONG		50.38			Negotiable
388378		30-MAY-18	KAKU, CHIYOMI		40.06			Negotiable
388379		30-MAY-18	KB HOMES		160.24			Negotiable
388380		30-MAY-18	KENEKEO, VALERIE		31.34			Negotiable
388381		30-MAY-18	KENT & AMY DAHLBERG		4,236.17			Negotiable
388382		30-MAY-18	KERUM, VANESSA		27.79			Negotiable
388383		30-MAY-18	KONECRANES INC		612.00			Negotiable
388384		30-MAY-18	KWOK, KENNETH		63.44			Negotiable
388385		30-MAY-18	LA HABRA FENCE COMPANY INC		43,991.43			Negotiable
388386		30-MAY-18	LENNAR HOMES		1,188.22			Negotiable
388387		30-MAY-18	LUAN, JOANNA		59.04			Negotiable
388388		30-MAY-18	MC MASTER CARR SUPPLY CO		811.31			Negotiable
388389		30-MAY-18	MCKEEN, ELIZABETH		349.08			Negotiable
388390		30-MAY-18	MERCY EMINA AND HENRY EMINA		60.16			Negotiable
388391		30-MAY-18	MOONEY, HAROLD		40.40			Negotiable
388392		30-MAY-18	NEPTUNE TECHNOLOGY GROUP, INC.		191,105.40			Negotiable
388393		30-MAY-18	NINYO & MOORE		16,702.15			Negotiable
388394		30-MAY-18	NOCE, WILLIAM T		49.64			Negotiable
388395		30-MAY-18	NORMAN A. OLSSON CONSTRUCTION, INC.		126,187.95			Negotiable
388396		30-MAY-18	OLIN CORPORATION		6,393.20			Negotiable
388397		30-MAY-18	ONESOURCE DISTRIBUTORS LLC		24,132.68			Negotiable
388398		30-MAY-18	ORANGE COUNTY BUSINESS COUNCIL		2,000.00			Negotiable
388399		30-MAY-18	PACIFIC COAST BOLT CORP		1,002.08			Negotiable
388400		30-MAY-18	PARKHOUSE TIRE INC		4,001.96			Negotiable
388401		30-MAY-18	PAULSON, IAN		400.00			Negotiable
388402		30-MAY-18	PAULUS ENGINEERING, INC.		14,708.00			Negotiable
388403		30-MAY-18	PAYNE & FEARS LLP		28,655.00			Negotiable
388404		30-MAY-18	PELLETIER & ASSOCIATES, INC.		1,240.00			Negotiable
388405		30-MAY-18	PENG, BO		38.56			Negotiable
388406		30-MAY-18	PFANNENSTIEL, STEPHANIE		30.32			Negotiable

IRWD Ledger Upgrade      Payment Register For 01-MAY-18 To 31-MAY-18      Report Date: 04-JUN-2018 08:53  
 BANK: Bank of America N.A.      Branch : Los Angeles      Account: Checking AP and PR      Page: 37  
 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								
388407		30-MAY-18	PFISTER, JUDY M		669.76			Negotiable
388408		30-MAY-18	PING, ZHANG		27.01			Negotiable
388409		30-MAY-18	POLLARDWATER.COM		957.14			Negotiable
388410		30-MAY-18	PSOMAS		11,411.58			Negotiable
388411		30-MAY-18	RANCHO ALISAL APTS		122.79			Negotiable
388412		30-MAY-18	REGENCY CENTERS		130.00			Negotiable
388413		30-MAY-18	RELIANCE SAFETY CONSULTANTS, INC.		7,450.00			Negotiable
388414		30-MAY-18	REN, YI		215.65			Negotiable
388415		30-MAY-18	SANDERS PAVING INC		170,939.53			Negotiable
388416		30-MAY-18	SANTA ANA BLUE PRINT		1,394.26			Negotiable
388417		30-MAY-18	SANTA MARGARITA FORD		234.92			Negotiable
388418		30-MAY-18	SCHNEIDER, KARIN		1,047.85			Negotiable
388419		30-MAY-18	SCOTT, DAYNE		16.75			Negotiable
388420		30-MAY-18	SHAMROCK SUPPLY CO INC		1,566.56			Negotiable
388421		30-MAY-18	SMITH, ANNIE		35.90			Negotiable
388422		30-MAY-18	SOFTCHOICE CORPORATION		6,347.60			Negotiable
388423		30-MAY-18	SOUTHERN CALIFORNIA EDISON COMPANY		7,342.87			Negotiable
388424		30-MAY-18	SOUTHERN CALIFORNIA EDISON COMPANY		317,245.75			Negotiable
388425		30-MAY-18	SS MECHANICAL CONSTRUCTION CORP		23,195.68			Negotiable
388426		30-MAY-18	STANDARD & POOR'S FINANCIAL SERVICES LLC		3,500.00			Negotiable
388427		30-MAY-18	SUNSHINE SUPPLY COMPANY, INC.		5,469.39			Negotiable
388428		30-MAY-18	SURF CITY OPTOMETRY		450.00			Negotiable
388429		30-MAY-18	TAYLOR MORRISON		140.49			Negotiable
388430		30-MAY-18	TIC-OFFICE PROPERTIES		74.09			Negotiable
388431		30-MAY-18	TIC-SPECTRUM OFFICE		1,553.18			Negotiable

388432	30-MAY-18	TOLL BROS., INC.	115.02	Negotiable
388433	30-MAY-18	TORRES, MONICA	85.12	Negotiable
388434	30-MAY-18	TRENCH SHORING COMPANY	463.33	Negotiable
388435	30-MAY-18	TRUCPARCO	29.80	Negotiable

IRWD Ledger Upgrade  
 BANK: Bank of America N.A. Branch : Los Angeles  
 Bank Account Currency: USD ( US Dollar )  
 Payment Type: All

Payment Register For 01-MAY-18 To 31-MAY-18 Report Date: 04-JUN-2018 08:53  
 Account: Checking AP and PR Page: 38  
 Payment Currency: USD ( US Dollar )  
 Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
388436		30-MAY-18	TULSA RIB COMPANY, INC.		8,343.89			Negotiable
388437		30-MAY-18	TURTLE ROCK CANYON APTS		38.46			Negotiable
388438		30-MAY-18	UNITED STATES PLASTIC CORP.		750.53			Negotiable
388439		30-MAY-18	UNITED WATER WORKS, INC.		6,182.74			Negotiable
388440		30-MAY-18	VANCE, JAMES		36.06			Negotiable
388441		30-MAY-18	VANOVER, CHRISTOPHE		26.93			Negotiable
388442		30-MAY-18	VAUGHAN'S INDUSTRIAL REPAIR CO INC		22,791.06			Negotiable
388443		30-MAY-18	VERIZON WIRELESS SERVICES LLC		9,272.45			Negotiable
388444		30-MAY-18	VOGLER, EMILY C		42.57			Negotiable
388445		30-MAY-18	VOLVO IRVINE		18.13			Negotiable
388446		30-MAY-18	WALTERS WHOLESALE ELECTRIC		753.82			Negotiable
388447		30-MAY-18	WANG, LING-HSIAO		35.34			Negotiable
388448		30-MAY-18	WANG, YUN HUA		32.64			Negotiable
388449		30-MAY-18	WAXIE'S ENTERPRISES, INC		439.87			Negotiable
388450		30-MAY-18	WECK LABORATORIES INC		1,791.00			Negotiable
388451		30-MAY-18	WILDRICK, DONNA		772.20			Negotiable
388452		30-MAY-18	WIRTA, LINDA W		74.66			Negotiable
388453		30-MAY-18	WORKFORCE SAFETY LLC		1,572.00			Negotiable
388454		30-MAY-18	YORKE ENGINEERING LLC		1,562.00			Negotiable
388455		30-MAY-18	YOU, SIJUN		122.25			Negotiable
388456		30-MAY-18	ZEBRON CONTRACTING INC		39,850.00			Negotiable
388457		30-MAY-18	ZU, SHUHUA		22.74			Negotiable
388458		31-MAY-18	Arce, Jesus (Jesse)		120.00			Negotiable
388459		31-MAY-18	Carlos, Alex		90.00			Negotiable
388460		31-MAY-18	Chaney, David (Dave)		65.00			Negotiable
388461		31-MAY-18	McElroy, Dorien		85.00			Negotiable
388462		31-MAY-18	Nieto, Agustin (Augie)		171.92			Negotiable
388463		31-MAY-18	Shinbashi, Allen		101.19	01-JUN-18	101.19	Reconciled
388464		31-MAY-18	Swan, Peer		2,149.31			Negotiable

IRWD Ledger Upgrade  
 BANK: Bank of America N.A. Branch : Los Angeles  
 Bank Account Currency: USD ( US Dollar )  
 Payment Type: All

Payment Register For 01-MAY-18 To 31-MAY-18 Report Date: 04-JUN-2018 08:53  
 Account: Checking AP and PR Page: 39  
 Payment Currency: USD ( US Dollar )  
 Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
388465		31-MAY-18	Toland, Scott Andrew		115.00			Negotiable
388466		31-MAY-18	Wilson, Brett		105.00			Negotiable
388467		31-MAY-18	Withers, John B		507.77	31-MAY-18	507.77	Reconciled
388468		31-MAY-18	CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION	PO 942879	7,455.60			Negotiable
Payment Document Subtotal:					10,730,894.83		8,320,685.21	

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD Wire								
12581		01-MAY-18	YORK INSURANCE SERVICES GROUP INC - CA	PAY	6,933.99			Negotiable
12582		09-MAY-18	CALPERS	SACRAMENTO 1	488,982.52			Negotiable
12583		09-MAY-18	CALPERS	SACRAMENTO 1	2,805.07			Negotiable
12584		10-MAY-18	YORK INSURANCE	PAY	5,634.16			Negotiable

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
12585	14-MAY-18		SERVICES GROUP INC - CA EMPLOYEE BENEFIT SPECIALISTS, INC. 11657	PO BOX	1,285.00			Negotiable
12586	14-MAY-18		EMPLOYEE BENEFIT SPECIALISTS, INC. 11657	PO BOX	13,219.32			Negotiable
12587	14-MAY-18		EMPLOYEE BENEFIT SPECIALISTS, INC. 11657	PO BOX	20,870.30			Negotiable
12588	15-MAY-18		U.S. BANK NATIONALST. LOUIS ASSOCIATION		8,388.09			Negotiable
12589	16-MAY-18		YORK INSURANCE SERVICES GROUP INC - CA	PAY	5,461.20			Negotiable
12590	21-MAY-18		CALPERS	SACRAMENTO	183,325.32			Negotiable
12591	22-MAY-18		CALPERS	SACRAMENTO	182,781.04			Negotiable
12592	22-MAY-18		INTERNAL REVENUE SERVICE	FRESNO	176,827.58			Negotiable
12593	22-MAY-18		FRANCHISE TAX BOARD	SACRAMENTO	54,797.93			Negotiable
12594	22-MAY-18		EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	13,819.69			Negotiable

IRWD Ledger Upgrade  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Report Date: 04-JUN-2018 08:53  
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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								
12595	22-MAY-18		CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO	1,993.83			Negotiable
12596	22-MAY-18		GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	DENVER	127,533.44			Negotiable
12597	22-MAY-18		INTERNAL REVENUE SERVICE	FRESNO	180,662.79			Negotiable
12598	22-MAY-18		FRANCHISE TAX BOARD	SACRAMENTO	55,803.84			Negotiable
12599	22-MAY-18		EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	13,871.28			Negotiable
12600	22-MAY-18		CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO	1,993.83			Negotiable
12601	22-MAY-18		GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	DENVER	133,317.86			Negotiable
12602	23-MAY-18		BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	111,943.89			Negotiable
12603	23-MAY-18		U.S. BANK NATIONALST. LOUIS ASSOCIATION		68,268.48			Negotiable
12604	23-MAY-18		BANK OF AMERICA	SAN FRANCISCO	67,939.75			Negotiable
12605	23-MAY-18		U.S. BANK NATIONALST. LOUIS ASSOCIATION		34,184.30			Negotiable
12606	23-MAY-18		SUMITOMO MITSUI BANKING CORPORATION	NEW YORK	65,258.63			Negotiable
12607	23-MAY-18		MUNICIPAL WATER DISTRICT OF ORANGEVALLEY COUNTY	FOUNTAIN	734,545.55			Negotiable
12608	23-MAY-18		YORK INSURANCE SERVICES GROUP INC - CA	PAY	11,349.70			Negotiable
12609	24-MAY-18		FILANC-BALFOUR BEATTY JV	ACT 4427724347	786,807.45			Negotiable
12610	24-MAY-18		FILANC-BALFOUR BEATTY JV	ESR 211084000	19,113.26			Negotiable
12611	25-MAY-18		EMPLOYEE BENEFIT SPECIALISTS, INC. 11657	PO BOX	13,851.14			Negotiable
12612	29-MAY-18		NGUYEN, MICHELLE	PAY	80.57			Negotiable

IRWD Ledger Upgrade  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Report Date: 04-JUN-2018 08:53  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar ) Page: 41  
 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								
12613	30-MAY-18		BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	18,666.67			Negotiable
12614	30-MAY-18		CALPERS	SACRAMENTO	344.70			Negotiable
12615	30-MAY-18		INTERNAL REVENUE SERVICE	FRESNO	181,244.85			Negotiable

12616	30-MAY-18	SERVICE FRANCHISE TAX BOARD	SACRAMENTO	55,963.67	Negotiable
12617	30-MAY-18	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	14,034.50	Negotiable
12618	30-MAY-18	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO	1,993.83	Negotiable
12619	30-MAY-18	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	DENVER	126,106.81	Negotiable
12620	30-MAY-18	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	4,608.91	Negotiable
12621	30-MAY-18	CALPERS	SACRAMENTO	183,306.07	Negotiable

Payment Document Subtotal: 4,179,920.81

Bank Account Subtotal : 14,910,815.64 8,320,685.21

Report Count : 1067 Report Total: 14,910,815.64 8,320,685.21

**Disbursements**

\*\*\* End of Report \*\*\*

**\$ 14,910,815.64 Disbursements**  
**<35,339.68> Voids**  
**\$ 14,875,475.96 Total Voids and Disbursements**

Exhibit "E"

MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS

May  
2018

	AMOUNT	VENDOR	PURPOSE
5/11/2018	932,262.94	BANK OF AMERICA	ACH Payments for Payroll
5/25/2018	931,673.29	BANK OF AMERICA	ACH Payments for Payroll
	<u><u>\$1,863,936.23</u></u>		

**IRWD Gov Code 53065.5 Disclosure Report**

**Exhibit "F"**

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

01-MAY-18 to 31-MAY-18

NAME	CHECK NO.	CHECK DATE	AMOUNT	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Arce, Jesus	388458	31-May-18	120.00	Certification Renewal	Wastewater Treatment Plant Operator Grade I
Bennett, Ray	387855	17-May-18	166.77	Mileage	Monthly Rio Bravo DRP Project Tour/Inspection
Cady, Thanh-Van	387856	17-May-18	150.00	Certification Renewal	Wastewater Treatment Plant Operator Grade III
Carlos, Alex	388136	24-May-18	180.00	Membership Renewal	CWEA membership
Dillman, Tyler	387444	3-May-18	130.00	Certification Renewal	Water Distribution Operator Grade IV
Do, Thu-Tam	387612	10-May-18	125.00	Other(Misc)	Safety shoe allowance
Fournier, Tanja	387859	17-May-18	187.09	Lodging	GFOA 112th Annual Conference, St. Louis, MO - May 6, 2018
Fournier, Tanja	387859	17-May-18	187.09	Lodging	GFOA 112th Annual Conference, St. Louis, MO - May 7, 2018
Fournier, Tanja	387859	17-May-18	187.09	Lodging	GFOA 112th Annual Conference, St. Louis, MO - May 8, 2018
Kalinsky, Arseny	387446	3-May-18	269.00	Membership Renewal	AWWA 2018 membership
Kanoff, Debbie	387851	11-May-18	293.04	Lodging	RIMs 2018 Annual Conference, San Antonio, TX - April 15, 2018
Kanoff, Debbie	387851	11-May-18	293.04	Lodging	RIMs 2018 Annual Conference, San Antonio, TX - April 16, 2018
Kanoff, Debbie	387851	11-May-18	293.04	Lodging	RIMs 2018 Annual Conference, San Antonio, TX - April 17, 2018
Kanoff, Debbie	387851	11-May-18	293.04	Lodging	RIMs 2018 Annual Conference, San Antonio, TX - April 18, 2018
LaMar, Steven	387447	3-May-18	105.73	Mileage	Urban Water Institute Conference, Palm Springs, CA - February 7-9, 2018
LaMar, Steven	387447	3-May-18	182.41	Lodging	Urban Water Institute Conference, Palm Springs, CA - February 8, 2018
Lao, Richard	387614	10-May-18	525.00	Registration Fees	CWEA 2018 Annual Conference, Sacramento, CA - April 17-20, 2018
Lao, Richard	387614	10-May-18	202.96	Airfare	CWEA 2018 Annual Conference, Sacramento, CA - April 17-20, 2018
Lao, Richard	387614	10-May-18	217.92	Lodging	CWEA 2018 Annual Conference, Sacramento, CA - April 17, 2018
Lao, Richard	387614	10-May-18	217.92	Lodging	CWEA 2018 Annual Conference, Sacramento, CA - April 18, 2018
Lao, Richard	387614	10-May-18	217.92	Lodging	CWEA 2018 Annual Conference, Sacramento, CA - April 19, 2018
Legault, Dan	388139	24-May-18	159.00	Certification Renewal	ASE certification
Lin, Eileen	387862	17-May-18	410.00	Membership Renewal	CalCPA membership
Lin, Eileen	387862	17-May-18	1,295.00	Certification Renewal	CalCPA certification and training
Ludwig, Jason	387448	3-May-18	120.00	Certification Renewal	Water Distribution Operator Grade III
Matheis, Mary Aileen	388141	24-May-18	361.62	Lodging	ACWA 2018 DC Conference, Washington, DC - February 26, 2018
Matheis, Mary Aileen	388141	24-May-18	361.62	Lodging	ACWA 2018 DC Conference, Washington, DC - February 27, 2018
Matheis, Mary Aileen	388141	24-May-18	361.62	Lodging	ACWA 2018 DC Conference, Washington, DC - February 28, 2018
Matheis, Mary Aileen	388141	24-May-18	240.35	Lodging	ACWA California Legislative Symposium, Sacramento, CA - March 13, 2018
McElroy, Dorien	387864	17-May-18	100.00	Certification Renewal	CWEA Collection System Maintenance Grade IV
Midstokke, Paige	387616	10-May-18	458.89	Mileage	CMUA Annual Conference, San Francisco, CA - March 25-27, 2018
Moeder, Jacob	387617	10-May-18	115.00	Membership Renewal	Professional Engineers & Land Surveyors license renewal
Mori, Richard	387618	10-May-18	115.00	Membership Renewal	Professional Engineers & Land Surveyors license renewal
Oldewage, Lars	387619	10-May-18	181.75	Airfare	ACWA Regulatory Update Meeting, Sacramento, CA - May 8, 2018
Orozco, Linda	387866	17-May-18	140.08	Other(Misc)	Safety shoe allowance
Perez, David	387620	10-May-18	118.51	Other(Misc)	Safety shoe allowance
Saini, Mohit	387871	17-May-18	120.60	Other(Misc)	Meeting supplies
Shinbashi, Allen	387852	11-May-18	293.04	Lodging	RIMs 2018 Annual Conf., San Antonio, TX - April 15, 2018
Shinbashi, Allen	387852	11-May-18	293.04	Lodging	RIMs 2018 Annual Conf., San Antonio, TX - April 16, 2018
Shinbashi, Allen	387852	11-May-18	293.04	Lodging	RIMs 2018 Annual Conf., San Antonio, TX - April 17, 2018
Shinbashi, Allen	387852	11-May-18	293.04	Lodging	RIMs 2018 Annual Conf., San Antonio, TX - April 18, 2018
Swan, Peer	387453	3-May-18	187.73	Mileage	Palo Verde Irrigation Inspection Trip, Blythe, CA - January 26, 2018
Swan, Peer	387453	3-May-18	216.26	Lodging	CASA 2018 Winter Conference, Palm Springs, CA - January 25, 2018
Swan, Peer	388464	31-May-18	175.99	Mileage	Kern County Water Summit, Bakersfield, CA - March 7, 2018
Swan, Peer	388464	31-May-18	519.96	Airfare	Water Education Foundation Central Valley Tour, Sacramento, CA - March 13-16, 2018
Swan, Peer	388464	31-May-18	231.59	Lodging	Water Education Foundation Central Valley Tour, Sacramento, CA - March 13, 2018
Swan, Peer	388464	31-May-18	405.98	Mileage	WaterReuse California Annual Conference, Monterey, CA - March 23-27, 2018
Swan, Peer	388464	31-May-18	309.72	Lodging	WaterReuse California Annual Conference, Monterey, CA - March 25, 2018
Swan, Peer	388464	31-May-18	309.72	Lodging	WaterReuse California Annual Conference, Monterey, CA - March 26, 2018
Toland, Scott	388465	31-May-18	115.00	Membership Renewal	Professional Engineers & Land Surveyors license renewal
Withers, John	388467	31-May-18	236.37	Lodging	ACWA 2018 Spring Conference, Sacramento, CA - May 8, 2018
Withers, John	388467	31-May-18	236.37	Lodging	ACWA 2018 Spring Conference, Sacramento, CA - May 9, 2018
<b>Total Amount:</b>			<b>\$13,319.95</b>		



June 25, 2018

Prepared by: C. Kessler/K. Lew

Submitted by: K. Burton *KLB*

Approved by: Paul A. Cook *CAF PC*

## CONSENT CALENDAR

### PLANNING AREA 51 HERITAGE FIELDS CAPITAL FACILITIES

#### SUMMARY:

Heritage Fields El Toro, LLC (Heritage Fields) is proceeding with development of 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 General Manager to accept Heritage Fields' construction contract with Fydaq Company Inc. in the amount of \$130,413 for the District 5 Cadence South Sewer Improvements, Project 10117;
- Authorize the General Manager to accept Heritage Fields' construction contract with Fydaq in the amount of \$598,335 for the District 5 Chinon Street Domestic Water, Sewer and Recycled Water Improvements, Projects 10022, 10023 and 10024;
- Approve CCO No. 1 to Projects 10022, 10023 and 10024 in the amount of \$124,418.98 for additions to quantities originally contracted to the District 5 Chinon Street Domestic Water, Sewer and Recycled Water Improvements;
- Authorize the General Manager to accept Heritage Fields' construction contract with Fydaq in the amount of \$1,056,852 for the District 5 "A" Street Domestic Water and Recycled Water Improvements, Projects 10343 and 10344; and
- Approve CCO No. 3 to Projects 06048 and 05788 in the amount of \$226,934 for tasks related to extending sewer pipelines across and within Barranca Parkway.

#### BACKGROUND:

Heritage Fields is moving forward with development of Districts 3 and 5 within PA 51. District 3 is bisected by Marine Way between Barranca Parkway and Alton Parkway. District 5 is adjacent to the city of Lake Forest between Irvine Boulevard and Barranca Parkway. 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 June 2017 PA 51 Sub-Area Master Plan Technical Memorandum 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 approved by the Board in August 2012 and November 2015, respectively.

#### District 5 Cadence South Sewer Improvements:

The District 5 Cadence South Sewer Improvements consist of installing approximately 750 feet of 12-inch sewer pipeline within Cadence South between "O" Street and Chinon. Heritage Fields retained Hunsaker to prepare the plans and received bids from four contractors. Heritage

Fields recommends awarding the construction contract to the lowest bidder, Fydaq, for a bid amount of \$130,413 as shown in Exhibit “B”. In addition, Heritage Fields has received consultant proposals for geotechnical observation and testing, surveying, construction support services, design and field 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 Cadence South Sewer Improvement costs is shown below.

Design (Hunsaker)	\$ 16,114.00
Construction (Fydaq)	\$ 130,413.00
Geotechnical Services (Engeo)	\$ 4,700.00
Construction Engineering/Surveying (Hunsaker)	\$ 12,500.00
Archeo/Paleo Monitoring (LSA)	\$ 5,225.00
Heritage Fields Administration Fee (1%)	<u>\$ 13,041.30</u>
	\$ 181,993.30

District 5 Chinon Improvements:

The District 5 Chinon Improvements consist of installing approximately 3,700 feet of 12-inch domestic water pipeline, 750 feet of 16-inch recycled water pipeline, 1,900 feet of 12-inch recycled water pipeline, 1,000 feet of sewer pipeline, and two sewer manholes within Chinon between Cadence and Cadence South. Heritage Fields retained Hunsaker to prepare the plans and received bids from four contractors. Heritage Fields recommends awarding the construction contract to the lowest bidder, Fydaq, for a bid amount of \$598,335 as shown in Exhibit “C”. In addition, Heritage Fields has received consultant proposals for geotechnical observation and testing, surveying, construction support services, design and field 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 Chinon Improvement costs is shown below.

Design (Hunsaker)	\$ 72,225.25
Construction (Fydaq)	\$ 598,335.00
Geotechnical Services (Engeo)	\$ 18,100.00
Construction Engineering/Surveying (Hunsaker)	\$ 34,800.00
Archeo/Paleo Monitoring (LSA)	\$ 5,225.00
Heritage Fields Administration Fee (1%)	<u>\$ 59,833.50</u>
	\$ 788,518.75

District 5 Chinon Improvements CCO No. 1:

CCO No. 1 to the District 5 Chinon Improvements project represents revisions to bid quantities that were originally contracted. Items were added to the original bid set as a part of final plan revisions. CCO No. 1 includes eliminating approximately 230 feet of 12-inch domestic water pipeline and 350 feet of 10-inch recycled water pipeline and adding approximately 800 feet of 12-inch sewer pipeline and 230 feet of 16-inch recycled water pipeline. Staff has reviewed the costs and quantities associated with this change order and finds it to be acceptable. CCO No. 1, attached as Exhibit “D” in the amount of \$124,418.98, is for the equipment, material, and labor to design and install the pipelines.

District 5 “A” Street Domestic Water and Recycled Water Improvements:

The District 5 “A” Street Domestic Water and Recycled Water Improvements consists of installing approximately 7,200 feet of 12-inch domestic water pipeline and 3,900 feet of 10-inch recycled water pipeline. Heritage Fields retained Hunsaker to prepare the plans and received bids from five contractors. Heritage Fields recommends awarding the construction contract to the lowest bidder, Fydaq, for a bid amount of \$1,056,852 as shown in Exhibit “E”. In addition, Heritage Fields has received consultant proposals for geotechnical observation and testing, surveying, and construction support services. Field archeological and paleontological monitoring was determined to be unnecessary given that construction of the domestic and recycled water pipelines would fall within the disturbed soil layer. Staff has reviewed the consultant proposals and the construction bids and found the amounts to be acceptable. A summary of the District 5 “A” Street Domestic Water and Recycled Water Improvements costs is shown below.

Design (Hunsaker)	\$ 160,000.00
Construction (Fydaq)	\$ 1,056,852.00
Geotechnical Services (Engeo)	\$ 18,600.00
Construction Engineering/Surveying (Hunsaker)	\$ 42,100.00
Heritage Fields Administration Fee (1%)	<u>\$ 105,685.20</u>
	\$ 1,383,237.20

District 3 Marine Way Sewer Improvements CCO No. 3:

CCO No. 3 to the District 3 Marine Way Sewer Improvements project represents construction and construction support costs associated with extending sewer pipelines across and within Barranca Parkway, thus eliminating the need for an additional Capital Project plan set. The extension of the sewer required approximately 150 feet of 18-inch sewer pipe and 150 feet of 30-inch steel casing what was installed via jack and bore. CCO No. 3, attached as Exhibit “F” in the amount of \$226,934, is for the equipment, material, and labor to perform the required modifications.

FISCAL IMPACTS:

Projects 10117, 10254, 10255, 10022, 10023, 10024, 10343, 10344, 06048 and 05788 are included in the FY 2018-19 Capital Budget and have adequate budget to fund this work.

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 June 19, 2018.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO ACCEPT HERITAGE FIELDS' CONSTRUCTION CONTRACT WITH FYDAQ COMPANY INC. IN THE AMOUNT OF \$130,413 FOR THE DISTRICT 5 CADENCE SOUTH SEWER IMPROVEMENTS, PROJECT 10117; AUTHORIZE THE GENERAL MANAGER TO ACCEPT HERITAGE FIELDS' CONSTRUCTION CONTRACT WITH FYDAQ IN THE AMOUNT OF \$598,335 FOR THE DISTRICT 5 CHINON STREET DOMESTIC WATER, SEWER AND RECYCLED WATER IMPROVEMENTS, PROJECTS 10022, 10023 AND 10024; APPROVE CONTRACT CHANGE ORDER NO. 1 TO PROJECTS 10022, 10023 AND 10024 IN THE AMOUNT OF \$124,418.98 FOR ADDITIONS TO QUANTITIES ORIGINALLY CONTRACTED TO THE DISTRICT 5 CHINON STREET DOMESTIC WATER, SEWER AND RECYCLED WATER IMPROVEMENTS; AUTHORIZE THE GENERAL MANAGER TO ACCEPT HERITAGE FIELDS' CONSTRUCTION CONTRACT WITH FYDAQ IN THE AMOUNT OF \$1,056,852 FOR THE DISTRICT 5 "A" STREET DOMESTIC WATER AND RECYCLED WATER IMPROVEMENTS, PROJECTS 10343 AND 10344; AND APPROVE CONTRACT CHANGE ORDER NO. 3 TO PROJECTS 06048 AND 05788 IN THE AMOUNT OF \$226,934 FOR TASKS RELATED TO EXTENDING SEWER PIPELINES ACROSS AND WITHIN BARRANCA PARKWAY.

LIST OF EXHIBITS:

Exhibit "A" – Location Map

Exhibit "B" – Bid Summary, District 5 Cadence South Sewer Improvements

Exhibit "C" – Bid Summary, District 5 Chinon Improvements

Exhibit "D" – Contract Change Order No. 1, District 5 Chinon Improvements

Exhibit "E" – Bid Summary, District 5 "A" Street Domestic Water and Recycled Water Improvements

Exhibit "F" – Contract Change Order No. 3, Marine Way Sewer Improvements.

# EXHIBIT "A"

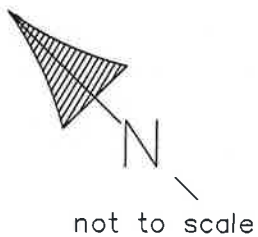
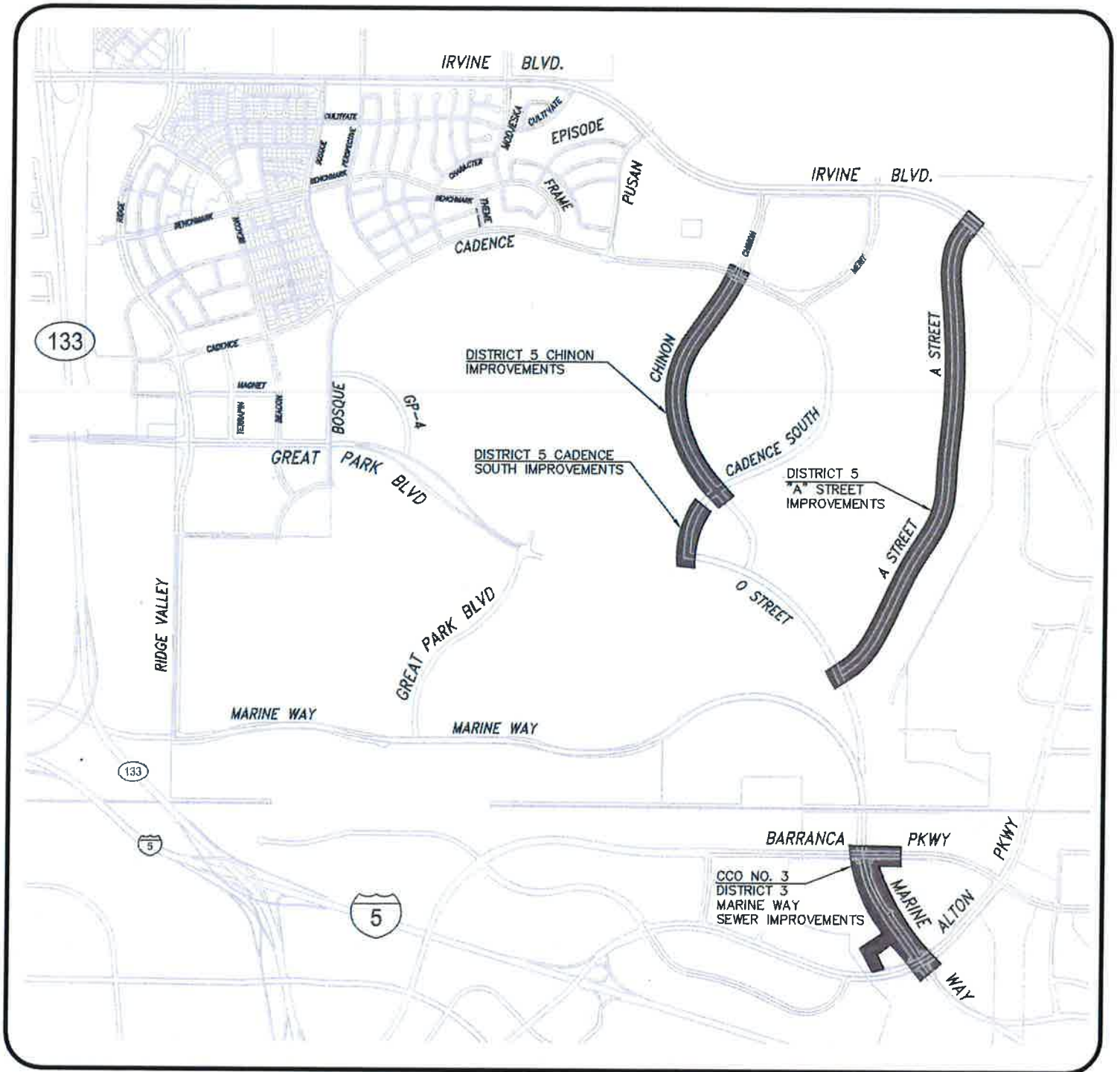


EXHIBIT "A"  
LOCATION MAP



# EXHIBIT "C"

ITEM NO.	I. IRWD CODE 6971 CAPITAL SANITARY SEWER	UNIT	QY	ENGINEER ESTIMATE		FYDAQ-LOW Attn: Steve Beyer Tel: 714.447.9760		Leatherwood Attn: Bobby Kawai Tel: 714.593.6575		Kennedy Attn: David Chorak Tel: 949.380.8363		KEC Attn: James Elfring Tel: 951.734.3010		L&S Attn: Elton Welham Tel: 714.528.3232	
				1	1	1	1	1	1	1	1	1	1	1	1
PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1.	Mobilization (Maximum of 2% of Bid Amount)	LS	1	\$ 1,400.00	\$ 1,400.00	\$ 1,000.00	\$ 1,000.00	\$ 2,000.00	\$ 2,000.00	\$ 38,000.00	\$ 38,000.00	\$ 10,000.00	\$ 10,000.00	\$ -	\$ -
2.	Performance, Labor & Payment Bond	LS	1	\$ 700.00	\$ 700.00	\$ 7,200.00	\$ 7,200.00	\$ 1,500.00	\$ 1,500.00	\$ 5,000.00	\$ 5,000.00	\$ 10,000.00	\$ 10,000.00	\$ -	\$ -
3.	Erosion Control - SWPPP & BMP's	LS	1	\$ 1,120.00	\$ 1,120.00	\$ 1,000.00	\$ 1,000.00	\$ 500.00	\$ 500.00	\$ 1,000.00	\$ 1,000.00	\$ 30,000.00	\$ 30,000.00	\$ -	\$ -
4.	Development and Application of Construction Water	LS	1	\$ 1,050.00	\$ 1,050.00	\$ 1,000.00	\$ 1,000.00	\$ 500.00	\$ 500.00	\$ 1,500.00	\$ 1,500.00	\$ 15,000.00	\$ 15,000.00	\$ -	\$ -
5.	Traffic Control	LS	1	\$ 1,050.00	\$ 1,050.00	\$ 1,000.00	\$ 1,000.00	\$ 500.00	\$ 500.00	\$ 1,000.00	\$ 1,000.00	\$ 20,000.00	\$ 20,000.00	\$ -	\$ -
6.	Cleaning and Grubbing (All Vegetation Within the Project Site)	LS	1	\$ 1,120.00	\$ 1,120.00	\$ 1,000.00	\$ 1,000.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	\$ 20,000.00	\$ 20,000.00	\$ -	\$ -
7.	Remove Temporary 6" or 8" Terminal Cleanout & Join Existing Sewer	EA	1	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 3,500.00	\$ 3,500.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ -	\$ -
8.	Air Test and Video Pipeline Per IRWD Standards & Specifications, Complete	LS	1	\$ 2,500.00	\$ 2,500.00	\$ 5,000.00	\$ 5,000.00	\$ 2,500.00	\$ 2,500.00	\$ 4,000.00	\$ 4,000.00	\$ 9,000.00	\$ 9,000.00	\$ -	\$ -
9.	Furnish and Install 12" PVC SDR 35, including Trenching, Bedding, Backfill & Compaction per IRWD Std. DWG. S-6, Depth = 13'-20', Complete	LF	254	\$ 63.00	\$ 16,002.00	\$ 101.00	\$ 25,654.00	\$ 80.00	\$ 20,320.00	\$ 102.00	\$ 25,908.00	\$ 215.00	\$ 54,610.00	\$ -	\$ -
10.	Furnish and Install 12" PVC (Green), C900, SDR 14 including Trenching, Bedding, Backfill, and Compaction per IRWD Std. S-6, Depth = 17'-29', Complete	LF	0	\$ -	\$ -	\$ 489.00	\$ -	\$ 100.00	\$ -	\$ 105.00	\$ -	\$ 815.00	\$ -	\$ -	\$ -
11.	Furnish and Install 18" PVC (Green), C905, SDR 18, including Trenching, Bedding, Backfill, and Compaction per IRWD Std. S-6, Depth = 27'-29', Complete	LF	0	\$ -	\$ -	\$ 138.00	\$ -	\$ 125.00	\$ -	\$ 237.00	\$ -	\$ 805.00	\$ -	\$ -	\$ -
12.	Construct 60" DIA. Manhole per IRWD Std. DWG. S-1 including 1 Raise, Complete	EA	1	\$ 8,580.00	\$ 8,580.00	\$ 6,714.00	\$ 6,714.00	\$ 10,000.00	\$ 10,000.00	\$ 8,500.00	\$ 8,500.00	\$ 38,000.00	\$ 38,000.00	\$ -	\$ -
13.	Construct 72" Dia. Manhole per IRWD Std. Dwg. S-1 w/ Modified Base per Detail on Plan, including 1 Raise, (Depth= 27' - 29'), Complete	EA	0	\$ -	\$ -	\$ 13,941.00	\$ -	\$ 12,500.00	\$ -	\$ 12,000.00	\$ -	\$ 50,000.00	\$ -	\$ -	\$ -
14.	Furnish & Install Temporary 6" Terminal Cleanout Per IRWD Std. S-5, Including 1 Raise to Grade	EA	0	\$ -	\$ -	\$ 1,991.00	\$ -	\$ 1,500.00	\$ -	\$ 1,320.00	\$ -	\$ 10,000.00	\$ -	\$ -	\$ -
15.	Install Casing Test Station Per IRWD Std. S-7 and CP-3	EA	2	\$ 1,240.00	\$ 2,480.00	\$ 1,000.00	\$ 2,000.00	\$ 1,250.00	\$ 2,500.00	\$ 750.00	\$ 1,500.00	\$ 5,000.00	\$ 10,000.00	\$ -	\$ -
16.	Install 20" Steel Casing w/ 60 LB Anodes at Each End per IRWD Std. S-7	LF	190	\$ 225.00	\$ 42,750.00	\$ 200.00	\$ 38,000.00	\$ 250.00	\$ 47,500.00	\$ 120.00	\$ 22,800.00	\$ 480.00	\$ 91,200.00	\$ -	\$ -
17.	Install 30" Steel Casing w/ 60 LB Anodes at Each End per IRWD Std. S-7	LF	0	\$ 275.00	\$ -	\$ 250.00	\$ -	\$ 300.00	\$ -	\$ 180.00	\$ -	\$ 620.00	\$ -	\$ -	\$ -
18.	Raise Manhole to Final Grade After Improvements are Complete or Requested by Developer including Extra Move, Complete	EA	1	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	\$ 605.00	\$ 605.00	\$ 850.00	\$ 850.00	\$ 2,000.00	\$ 2,000.00	\$ -	\$ -
19.	Raise Cleanout to Final Grade After Improvements are Complete or Requested by Developer including Extra Move, Complete	EA	0	\$ -	\$ -	\$ 450.00	\$ -	\$ 605.00	\$ -	\$ 650.00	\$ -	\$ 2,000.00	\$ -	\$ -	\$ -
<b>SUBTOTAL, IMPROVEMENTS.....</b>				<b>\$81,752.00</b>	<b>\$92,568.00</b>	<b>\$93,425.00</b>	<b>\$116,558.00</b>	<b>\$314,810.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>



<b>ENGINEER ESTIMATE</b>	<b>FYDAQ-LOW</b> Attn: Steve Beyer Tel: 714.447.9760	<b>Leatherwood</b> Attn: Bobby Kawai Tel: 714.593.6575	<b>Kennedy</b> Attn: David Chorak Tel: 949.380.8363	<b>KEC</b> Attn: James Elfring Tel: 951.734.3010	<b>L&amp;S</b> Attn: Elton Welham Tel: 714.528.3232
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<b>ENGINEER ESTIMATE</b>	<b>FYDAQ-LOW</b> Attn: Steve Beyer Tel: 714.447.9760	<b>Leatherwood</b> Attn: Bobby Kawai Tel: 714.593.6575	<b>Kennedy</b> Attn: David Chorak Tel: 949.380.8363	<b>KEC</b> Attn: James Elfring Tel: 951.734.3010	<b>L&amp;S</b> Attn: Elton Welham Tel: 714.528.3232
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DID NOT RESPOND TO BID

ITEM NO.	II. IRWD CODE 6971 CAPITAL DOMESTIC WATER	UNIT	QY	FYDAQ-LOW		Leatherwood		Kennedy		KEC		L&S	
				PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
20.	Mobilization (Maximum of 2% of Bid Amount)	LS	1	\$ 5,700.00	\$ 5,700.00	\$ 1,000.00	\$ 1,000.00	\$ 6,000.00	\$ 6,000.00	\$ 52,000.00	\$ 52,000.00	\$ 10,000.00	\$ 10,000.00
21.	Performance, Labor & Payment Bond	LS	1	\$ 2,850.00	\$ 2,850.00	\$ 3,500.00	\$ 3,500.00	\$ 4,000.00	\$ 4,000.00	\$ 9,696.00	\$ 9,696.00	\$ 10,000.00	\$ 10,000.00
22.	Erosion Control - SWPPP & BMP's	LS	1	\$ 4,560.00	\$ 4,560.00	\$ 1,000.00	\$ 1,000.00	\$ 500.00	\$ 500.00	\$ 1,000.00	\$ 1,000.00	\$ 30,000.00	\$ 30,000.00
23.	Development and Application of Construction Water	LS	1	\$ 4,275.00	\$ 4,275.00	\$ 1,000.00	\$ 1,000.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	\$ 15,000.00	\$ 15,000.00
24.	Traffic Control	LS	1	\$ 4,275.00	\$ 4,275.00	\$ 1,000.00	\$ 1,000.00	\$ 500.00	\$ 500.00	\$ 1,000.00	\$ 1,000.00	\$ 20,000.00	\$ 20,000.00
25.	Clearing and Grubbing (All Vegetation Within the Project Site)	LS	1	\$ 4,560.00	\$ 4,560.00	\$ 1,000.00	\$ 1,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,500.00	\$ 1,500.00	\$ 20,000.00	\$ 20,000.00
26.	Remove Temporary Flush-out Assembly and join existing PVC Waterline, Complete	EA	1	\$ 3,000.00	\$ 3,000.00	\$ 2,500.00	\$ 2,500.00	\$ 3,500.00	\$ 3,500.00	\$ 5,000.00	\$ 5,000.00	\$ 6,000.00	\$ 6,000.00
27.	Chlorinate & Pressure Test Pipeline, including Disposal of Chlorinated Water, Complete	LS	1	\$ 2,500.00	\$ 2,500.00	\$ 3,600.00	\$ 3,600.00	\$ 5,000.00	\$ 5,000.00	\$ 3,000.00	\$ 3,000.00	\$ 40,000.00	\$ 40,000.00
28.	Furnish and Install 12" PVC Pipe, C-900, DR 14, w/Trenching, Bedding & Backfill per IRWD Std. W-17 including all fittings, appurtenances and thrust blocks per IRWD Std. W-16 and W-19 and as shown on the plans, Complete	LF	3,971	\$ 55.00	\$ 218,405.00	\$ 45.00	\$ 178,695.00	\$ 60.00	\$ 238,260.00	\$ 115.00	\$ 456,665.00	\$ 190.00	\$ 754,490.00
29.	Furnish and Install 12" Butterfly Valve, Cl. 150B, Flg'd, w/Thrust Block per IRWD Std. DWG. W-22, including Initial Can Raise, Valve Box per IRWD Std. W-22, Complete	EA	10	\$ 4,500.00	\$ 45,000.00	\$ 3,500.00	\$ 35,000.00	\$ 4,000.00	\$ 40,000.00	\$ 3,600.00	\$ 36,000.00	\$ 8,000.00	\$ 80,000.00
30.	Furnish and Install 2" Air Vac Assembly, Case 3 per IRWD Std. W-11, including 1 Raise, Complete	EA	2	\$ 4,500.00	\$ 9,000.00	\$ 5,314.00	\$ 10,628.00	\$ 5,500.00	\$ 11,000.00	\$ 4,215.00	\$ 8,430.00	\$ 12,000.00	\$ 24,000.00
31.	Furnish and install Temporary Flush-Out Assembly per IRWD Std. W-12, including 1 Raise, Complete	EA	2	\$ 3,500.00	\$ 7,000.00	\$ 1,800.00	\$ 3,600.00	\$ 2,500.00	\$ 5,000.00	\$ 1,000.00	\$ 2,000.00	\$ 9,000.00	\$ 18,000.00
32.	Raise Valve Can to Final Grade After Improvements are Complete or Requested by Developer including Extra Move, Complete	EA	12	\$ 500.00	\$ 6,000.00	\$ 450.00	\$ 5,400.00	\$ 385.00	\$ 4,620.00	\$ 650.00	\$ 7,800.00	\$ 1,500.00	\$ 18,000.00
<b>SUBTOTAL, IMPROVEMENTS .....</b>				<b>\$317,125.00</b>	<b>\$247,923.00</b>	<b>\$322,380.00</b>	<b>\$585,591.00</b>	<b>\$1,045,490.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>



<b>ENGINEER ESTIMATE</b>	<b>FYDAQ-LOW</b> Attn: Steve Beyer Tel: 714.447.9760	<b>Leatherwood</b> Attn: Bobby Kawai Tel: 714.593.6575	<b>Kennedy</b> Attn: David Chorak Tel: 949.380.8363	<b>KEC</b> Attn: James Elfring Tel: 951.734.3010	<b>L&amp;S</b> Attn: Elton Welham Tel: 714.528.3232
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<b>ENGINEER ESTIMATE</b>	<b>FYDAQ-LOW</b> Attn: Steve Beyer Tel: 714.447.9760	<b>Leatherwood</b> Attn: Bobby Kawai Tel: 714.593.6575	<b>Kennedy</b> Attn: David Chorak Tel: 949.380.8363	<b>KEC</b> Attn: James Elfring Tel: 951.734.3010	<b>L&amp;S</b> Attn: Elton Welham Tel: 714.528.3232
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ITEM NO.	III. IRWD CODE 6971 CAPITAL RECYCLED WATER	UNIT	QY	1		1		1		1		1		DID NOT RESPOND TO BID	
				PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
33.	Mobilization (Maximum of 2% of Bid Amount)	LS	1	\$ 6,100.00	\$ 6,100.00	\$ 1,000.00	\$ 1,000.00	\$ 7,500.00	\$ 7,500.00	\$ 5,443.00	\$ 5,443.00	\$ 10,000.00	\$ 10,000.00	\$ -	\$ -
34.	Performance, Labor & Payment Bond	LS	1	\$ 3,050.00	\$ 3,050.00	\$ 3,500.00	\$ 3,500.00	\$ 4,000.00	\$ 4,000.00	\$ 3,500.00	\$ 3,500.00	\$ 10,000.00	\$ 10,000.00	\$ -	\$ -
35.	Erosion Control - SWPPP & BMPs	LS	1	\$ 4,880.00	\$ 4,880.00	\$ 1,000.00	\$ 1,000.00	\$ 500.00	\$ 500.00	\$ 1,000.00	\$ 1,000.00	\$ 30,000.00	\$ 30,000.00	\$ -	\$ -
36.	Development and Application of Construction Water	LS	1	\$ 4,575.00	\$ 4,575.00	\$ 1,000.00	\$ 1,000.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	\$ 15,000.00	\$ 15,000.00	\$ -	\$ -
37.	Traffic Control	LS	1	\$ 4,575.00	\$ 4,575.00	\$ 1,000.00	\$ 1,000.00	\$ 500.00	\$ 500.00	\$ 4,000.00	\$ 4,000.00	\$ 20,000.00	\$ 20,000.00	\$ -	\$ -
38.	Clearing and Grubbing (All Vegetation Within the Project Site)	LS	1	\$ 4,880.00	\$ 4,880.00	\$ 1,000.00	\$ 1,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,000.00	\$ 1,000.00	\$ 20,000.00	\$ 20,000.00	\$ -	\$ -
39.	Remove Temporary Flush-out Assembly and join existing PVC Waterline, Complete	EA	1	\$ 3,000.00	\$ 3,000.00	\$ 2,500.00	\$ 2,500.00	\$ 3,500.00	\$ 3,500.00	\$ 3,500.00	\$ 3,500.00	\$ 7,000.00	\$ 7,000.00	\$ -	\$ -
40.	Pressure Test	EA	1	\$ 2,500.00	\$ 2,500.00	\$ 3,000.00	\$ 3,000.00	\$ 5,000.00	\$ 5,000.00	\$ 2,000.00	\$ 2,000.00	\$ 40,000.00	\$ 40,000.00	\$ -	\$ -
41.	Furnish and Install 10" PVC Purple Pipe, C900, DR 14, w/ Trenching, Bedding & Backfill per IRWD Std. W-17 including all fittings, appurtenances and thrust blocks per IRWD Std. W-16 and W-19 and as shown on the plans, Complete	LF	2,137	\$ 50.00	\$ 106,850.00	\$ 38.00	\$ 81,206.00	\$ 70.00	\$ 149,590.00	\$ 50.00	\$ 106,850.00	\$ 200.00	\$ 427,400.00	\$ -	\$ -
42.	Furnish and Install 12" PVC Purple Pipe, C900, DR 14, w/ Trenching, Bedding & Backfill per IRWD Std. W-17 including all fittings, appurtenances and thrust blocks per IRWD Std. W-16 and W-19 and as shown on the plans, Complete	LF	1,277	\$ 55.00	\$ 70,235.00	\$ 48.00	\$ 61,296.00	\$ 80.00	\$ 102,160.00	\$ 75.00	\$ 95,775.00	\$ 205.00	\$ 261,785.00	\$ -	\$ -
43.	Furnish and Install 16" PVC Purple Pipe, C905, DR 18, w/Trenching, Bedding & Backfill per IRWD Std. W-17 including all fittings, appurtenances and thrust blocks per IRWD Std. W-16 and W-19 and as shown on the plans, Complete	LF	518	\$ 95.00	\$ 49,210.00	\$ 73.00	\$ 37,814.00	\$ 100.00	\$ 51,800.00	\$ 115.00	\$ 59,570.00	\$ 215.00	\$ 111,370.00	\$ -	\$ -
44.	Furnish and Install 10" Butterfly Valve, Cl. 150B, Fig'd., including Initial Raise, valve box per IRWD Std. W-22, Complete	EA	4	\$ 4,000.00	\$ 16,000.00	\$ 3,250.00	\$ 13,000.00	\$ 3,000.00	\$ 12,000.00	\$ 3,360.00	\$ 13,440.00	\$ 8,000.00	\$ 32,000.00	\$ -	\$ -
45.	Furnish and Install 12" Butterfly Valve, Cl. 150B, Fig'd., including Initial Raise, valve box per IRWD Std. W-22, Complete	EA	5	\$ 4,500.00	\$ 22,500.00	\$ 3,600.00	\$ 18,000.00	\$ 4,000.00	\$ 20,000.00	\$ 3,600.00	\$ 18,000.00	\$ 9,000.00	\$ 45,000.00	\$ -	\$ -
46.	Furnish and Install 16" Butterfly Valve, Cl. 150B, Fig'd., including Initial Raise, valve box per IRWD Std. W-22, Complete	EA	2	\$ 6,500.00	\$ 13,000.00	\$ 5,450.00	\$ 10,900.00	\$ 6,500.00	\$ 13,000.00	\$ 6,000.00	\$ 12,000.00	\$ 10,000.00	\$ 20,000.00	\$ -	\$ -
47.	Furnish and Install 2" Air-Vac Assembly, Case 3, per IRWD Std. DWG. W-11, Complete	EA	1	\$ 4,500.00	\$ 4,500.00	\$ 5,300.00	\$ 5,300.00	\$ 5,500.00	\$ 5,500.00	\$ 3,700.00	\$ 3,700.00	\$ 12,000.00	\$ 12,000.00	\$ -	\$ -
48.	Furnish and Install Temporary Flush-Out Assembly per IRWD Std. W-12, including 1 Raise, Complete	EA	3	\$ 3,500.00	\$ 10,500.00	\$ 1,912.00	\$ 5,736.00	\$ 2,500.00	\$ 7,500.00	\$ 1,000.00	\$ 3,000.00	\$ 9,000.00	\$ 27,000.00	\$ -	\$ -
49.	Furnish and Install Recycled Water Wharf Head Hydrant, Condition 2, per IRWD Std. W-9 w/ blue reflective marker per OCFA guidelines, including 1 Raise, Complete	EA	1	\$ 5,000.00	\$ 5,000.00	\$ 4,742.00	\$ 4,742.00	\$ 6,500.00	\$ 6,500.00	\$ 3,200.00	\$ 3,200.00	\$ 17,000.00	\$ 17,000.00	\$ -	\$ -
50.	Raise Valve Can to Final Grade After Improvements are Complete or Requested by Developer including Extra Move, Complete	EA	13	\$ 500.00	\$ 6,500.00	\$ 450.00	\$ 5,850.00	\$ 385.00	\$ 5,005.00	\$ 650.00	\$ 8,450.00	\$ 1,500.00	\$ 19,500.00	\$ -	\$ -
<b>SUBTOTAL, IMPROVEMENTS</b>				<b>\$337,855.00</b>	<b>\$257,844.00</b>	<b>\$398,055.00</b>	<b>\$345,928.00</b>	<b>\$1,125,055.00</b>	<b>\$0.00</b>						
<b>TOTAL, IMPROVEMENTS</b>				<b>\$736,732.00</b>	<b>\$598,335.00</b>	<b>\$813,860.00</b>	<b>\$1,048,077.00</b>	<b>\$2,485,355.00</b>	<b>\$0.00</b>						

**EXHIBIT "D"**

CHANGE NO.: \_\_\_\_\_  
DATE: \_\_\_\_\_

**POTENTIAL CHANGE OF WORK ACKNOWLEDGEMENT & VALUE  
(FOR IRWD CAPITAL IMPROVEMENTS)**

The purpose of this form is to acknowledge a change in work for the intent of reimbursement of costs. Upon acceptance a change order will be issued.

Contract No.: 20551701 (RCO#1790b) Owner: Heritage Fields El Toro, LLC

Sewer  Contractor: FYDAQ Company Inc.  
Domestic Water   
Reclaim Water  Design Engineer: Hunsaker & Associates  
Other  IRWD Mgr. Kelly Lew

Project Description: District 5 Chinon Street Joint Backbone IRWD Capital Facilities IRWD Code 6971  
Chinon Segment 2 - [From "P" Street to Cadence]

**PART A - POTENTIAL CHANGE OF WORK:**

Plan Revision Required:  YES  NO Estimated Cost: \_\_\_\_\_

Change Initiated By: December 12, 2017 Rev D, signed by Kevin Burton

Work Description: Perform revisions from Bid Set to Approved Plan revisions, due to IRWD SAMP changes.

1. Submitted by: *TS*  
Owner Representative / Date
- 2a. In IRWD's opinion the aforementioned work does  qualify as a potential change in work. does not
- 2b. IRWD comments (required if representative does not concur with the potential change):
- 2c. Reviewed by: *Christa Veach* 5/29/18  
IRWD Representative / Date
3. Received and Recorded by: \_\_\_\_\_  
Owner Representative / Date

**PART B - CHANGE OF WORK VALUE:** \$ 124,418.98

Detailed Backup Attached

1. Submitted by: *R* 5-29-18  
Owner Representative / Date
2. Recommended by: \_\_\_\_\_  
IRWD Representative / Date

# EXHIBIT "E"

Owner: Heritage Fields El Toro, LLC Project: District 5 - "A" Street - Wet Utility Improvements Bid Date: January 4, 2018  
CODE 7075

ITEM NO.	IRWD CODE 7079 CAPITAL DOMESTIC WATER	UNIT	QY	ENGINEER ESTIMATE		FYDAQ-LOW Attn: Greg Huntley Tel: 714.447.9760		Kennedy Attn: David Chorak Tel: 949.380.8363		L&S Attn: Eilon Welham Tel: 714.528.3232		KEC Attn: James Elting Tel: 951.734.3010		Leatherwood Attn: Bobby Kawai Tel: 714.593.6575	
				PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1.	Mobilization (Maximum of 2% of Bid Amount)	LS	1	\$ 13,671.60	\$ 13,671.60	\$ 1,000.00	\$ 1,000.00	\$ 12,000.00	\$ 12,000.00	\$ 5,000.00	\$ 5,000.00	\$ 14,000.00	\$ 14,000.00	\$ 5,000.00	\$ 5,000.00
2.	Performance, Labor & Payment Bond	LS	1	\$ 13,845.03	\$ 13,845.03	\$ 5,622.00	\$ 5,622.00	\$ 9,000.00	\$ 9,000.00	\$ 10,600.00	\$ 10,600.00	\$ 7,600.00	\$ 7,600.00	\$ 10,000.00	\$ 10,000.00
3.	Erosion Control - SWPPP & BMP's	LS	1	\$ 6,972.52	\$ 6,972.52	\$ 1,000.00	\$ 1,000.00	\$ 500.00	\$ 500.00	\$ 800.00	\$ 800.00	\$ 1,000.00	\$ 1,000.00	\$ 5,000.00	\$ 5,000.00
4.	Development and Application of Construction Water	LS	1	\$ 3,486.26	\$ 3,486.26	\$ 1,000.00	\$ 1,000.00	\$ 500.00	\$ 500.00	\$ 560.00	\$ 560.00	\$ 2,200.00	\$ 2,200.00	\$ 5,000.00	\$ 5,000.00
5.	Traffic Control	LS	1	\$ 1,743.13	\$ 1,743.13	\$ 1,000.00	\$ 1,000.00	\$ 500.00	\$ 500.00	\$ 100.00	\$ 100.00	\$ 500.00	\$ 500.00	\$ 5,000.00	\$ 5,000.00
6.	Remove Temporary Flush-out Assembly and Join existing PVC Waterline, Complete	EA	1	\$ 2,500.00	\$ 2,500.00	\$ 2,250.00	\$ 2,250.00	\$ 2,500.00	\$ 2,500.00	\$ 4,600.00	\$ 4,600.00	\$ 3,000.00	\$ 3,000.00	\$ 1,000.00	\$ 1,000.00
7.	Chlorinate & Pressure Test Pipeline, including Disposal of Chlorinated Water, Complete	LS	1	\$ 7,200.00	\$ 7,200.00	\$ 12,500.00	\$ 12,500.00	\$ 4,000.00	\$ 4,000.00	\$ 10,000.00	\$ 10,000.00	\$ 14,500.00	\$ 14,500.00	\$ 40,000.00	\$ 40,000.00
8.	2nd Mobilization for Installation of Remainder of Domestic Water Improvements at Existing 12KV Encasement, Including Removal and Replacement of Base Pavement Section	LS	1	\$ 4,000.00	\$ 4,000.00	\$ 5,850.00	\$ 5,850.00	\$ 3,400.00	\$ 3,400.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00
9.	Furnish and Install 12" PVC Pipe, C-900, DR 14, w/Trenching, Bedding & Backfill per IRWD Std. W-17 including all fittings, appurtenances and thrust blocks per IRWD Std. W-16 and W-19 and as shown on the plans, Complete	LF	7,213	\$ 60.00	\$ 432,780.00	\$ 47.00	\$ 339,011.00	\$ 56.00	\$ 403,928.00	\$ 57.00	\$ 411,141.00	\$ 60.00	\$ 432,780.00	\$ 85.00	\$ 468,845.00
10.	Furnish and Install 12" Butterfly Valve, Cl. 150B, Fig'd, w/Thrust Block per IRWD Std. DWG. W-22, including Initial Can Raise, Valve Box per IRWD Std. W-22, Complete	EA	25	\$ 3,500.00	\$ 87,500.00	\$ 3,185.00	\$ 79,625.00	\$ 4,000.00	\$ 100,000.00	\$ 4,400.00	\$ 110,000.00	\$ 4,900.00	\$ 122,500.00	\$ 4,500.00	\$ 112,500.00
11.	Furnish and Install 2" Air Vac Assembly, Case 3 per IRWD Std. W-11, Including 1 Raise, Complete	EA	5	\$ 5,000.00	\$ 25,000.00	\$ 5,450.00	\$ 27,250.00	\$ 5,000.00	\$ 25,000.00	\$ 4,620.00	\$ 23,100.00	\$ 5,250.00	\$ 26,250.00	\$ 8,000.00	\$ 40,000.00
12.	Furnish and Install Temporary Flush-Out Assembly per IRWD Std. W-12, including 1 Raise, Complete	EA	2	\$ 1,800.00	\$ 3,600.00	\$ 1,515.00	\$ 3,030.00	\$ 1,500.00	\$ 3,000.00	\$ 1,980.00	\$ 3,960.00	\$ 1,750.00	\$ 3,500.00	\$ 3,000.00	\$ 6,000.00
13.	Furnish and Install Pressure Regulating Station per IRWD Std. W-15 and per Detail on Plan, Complete	EA	1	\$100,000.00	\$ 100,000.00	\$ 93,750.00	\$ 93,750.00	\$ 80,000.00	\$ 80,000.00	\$110,000.00	\$ 110,000.00	\$ 90,000.00	\$ 90,000.00	\$ 60,000.00	\$ 60,000.00
14.	Furnish and Install Vault Sump, Type 1, Per IRWD Std. G-6, Complete	EA	1	\$ 5,000.00	\$ 5,000.00	\$ 22,250.00	\$ 22,250.00	\$ 100.00	\$ 100.00	\$ 3,000.00	\$ 3,000.00	\$ 3,500.00	\$ 3,500.00	\$ 40,000.00	\$ 40,000.00
15.	Raise Valve Can to Final Grade After Improvements are Complete or Requested by Developer including Extra Move-In, Complete	EA	32	\$ 500.00	\$ 16,000.00	\$ 450.00	\$ 14,400.00	\$ 250.00	\$ 8,000.00	\$ 500.00	\$ 16,000.00	\$ 385.00	\$ 12,320.00	\$ 1,000.00	\$ 32,000.00
<b>SUBTOTAL, IMPROVEMENTS</b>				<b>\$723,398.54</b>	<b>\$609,538.00</b>	<b>\$652,428.00</b>	<b>\$713,881.00</b>	<b>\$738,650.00</b>	<b>\$835,345.00</b>						

ITEM NO.	IRWD CODE 7079 CAPITAL RECYCLED WATER	UNIT	QY	ENGINEER ESTIMATE		FYDAQ-LOW Attn: Greg Huntley Tel: 714.447.9760		Kennedy Attn: David Chorak Tel: 949.380.8363		L&S Attn: Eilon Welham Tel: 714.528.3232		KEC Attn: James Elting Tel: 951.734.3010		Leatherwood Attn: Bobby Kawai Tel: 714.593.6575	
				PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
16.	Mobilization (Maximum of 2% of Bid Amount)	LS	1	\$ 9,654.00	\$ 9,654.00	\$ 1,000.00	\$ 1,000.00	\$ 22,000.00	\$ 22,000.00	\$ 5,000.00	\$ 5,000.00	\$ 10,000.00	\$ 10,000.00	\$ 5,000.00	\$ 5,000.00
17.	Performance, Labor & Payment Bond	LS	1	\$ 9,847.08	\$ 9,847.08	\$ 4,126.00	\$ 4,126.00	\$ 22,000.00	\$ 22,000.00	\$ 7,200.00	\$ 7,200.00	\$ 7,600.00	\$ 7,600.00	\$ 5,000.00	\$ 5,000.00
18.	Erosion Control - SWPPP & BMP's	LS	1	\$ 4,823.54	\$ 4,823.54	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 800.00	\$ 800.00	\$ 1,000.00	\$ 1,000.00	\$ 5,000.00	\$ 5,000.00
19.	Development and Application of Construction Water	LS	1	\$ 2,461.77	\$ 2,461.77	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 560.00	\$ 560.00	\$ 2,200.00	\$ 2,200.00	\$ 5,000.00	\$ 5,000.00
20.	Traffic Control	LS	1	\$ 1,230.89	\$ 1,230.89	\$ 1,000.00	\$ 1,000.00	\$ 500.00	\$ 500.00	\$ 100.00	\$ 100.00	\$ 500.00	\$ 500.00	\$ 5,000.00	\$ 5,000.00
21.	Remove Temporary Flush-out Assembly and Join existing PVC Waterline, Complete	EA	1	\$ 2,500.00	\$ 2,500.00	\$ 2,250.00	\$ 2,250.00	\$ 3,961.00	\$ 3,961.00	\$ 4,600.00	\$ 4,600.00	\$ 3,000.00	\$ 3,000.00	\$ 1,000.00	\$ 1,000.00
22.	Pressure Test	EA	1	\$ 3,650.00	\$ 3,650.00	\$ 9,450.00	\$ 9,450.00	\$ 4,000.00	\$ 4,000.00	\$ 5,100.00	\$ 5,100.00	\$ 9,000.00	\$ 9,000.00	\$ 40,000.00	\$ 40,000.00
23.	2nd Mobilization for Installation of Remainder of Recycled Water Improvements at Existing 12KV Encasement, Including Removal and Replacement of Base Pavement Section	LS	1	\$ 4,000.00	\$ 4,000.00	\$ 5,850.00	\$ 5,850.00	\$ 2,500.00	\$ 2,500.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00
24.	Furnish and Install 10" PVC Purple Pipe, C900, DR 14, w/ Trenching, Bedding & Backfill per IRWD Std. W-17 including all fittings, appurtenances and thrust blocks per IRWD Std. W-16 and W-19 and as shown on the plans, Complete	LF	3,903	\$ 50.00	\$ 195,150.00	\$ 46.00	\$ 179,538.00	\$ 49.00	\$ 191,247.00	\$ 43.00	\$ 167,829.00	\$ 46.00	\$ 179,538.00	\$ 48.00	\$ 187,344.00
25.	Furnish and Install 12" PVC Purple Pipe, C900, DR 14, w/ Trenching, Bedding & Backfill per IRWD Std. W-17 including all fittings, appurtenances and thrust blocks per IRWD Std. W-16 and W-19 and as shown on the plans, Complete	LF	3,400	\$ 60.00	\$ 204,000.00	\$ 50.00	\$ 170,000.00	\$ 54.00	\$ 183,600.00	\$ 57.00	\$ 193,800.00	\$ 57.00	\$ 193,800.00	\$ 58.00	\$ 197,200.00
26.	Furnish and Install 10" Butterfly Valve, Cl. 150B, Fig'd, including Initial Raise, valve box per IRWD Std. W-22, Complete	EA	6	\$ 2,500.00	\$ 15,000.00	\$ 2,840.00	\$ 17,040.00	\$ 3,000.00	\$ 18,000.00	\$ 4,160.00	\$ 24,960.00	\$ 4,100.00	\$ 24,600.00	\$ 4,000.00	\$ 24,000.00
27.	Furnish and Install 2" Air-Vac Assembly, Case 3, per IRWD Std. DWG. W-11, Complete	EA	3	\$ 5,000.00	\$ 15,000.00	\$ 5,450.00	\$ 16,350.00	\$ 5,000.00	\$ 15,000.00	\$ 4,620.00	\$ 13,860.00	\$ 5,450.00	\$ 16,350.00	\$ 8,000.00	\$ 24,000.00
28.	Furnish and Install Temporary Flush-Out Assembly per IRWD Std. W-12, including 1 Raise, Complete	EA	3	\$ 1,800.00	\$ 5,400.00	\$ 1,970.00	\$ 5,910.00	\$ 1,500.00	\$ 4,500.00	\$ 1,990.00	\$ 5,970.00	\$ 1,750.00	\$ 5,250.00	\$ 4,000.00	\$ 12,000.00
30.	Raise Valve Can to Final Grade After Improvements are Complete or Requested by Developer including Extra Move-In, Complete	EA	20	\$ 500.00	\$ 10,000.00	\$ 450.00	\$ 9,000.00	\$ 250.00	\$ 5,000.00	\$ 500.00	\$ 10,000.00	\$ 385.00	\$ 7,700.00	\$ 1,000.00	\$ 20,000.00
<b>SUBTOTAL, IMPROVEMENTS</b>				<b>\$510,817.28</b>	<b>\$447,314.00</b>	<b>\$506,308.00</b>	<b>\$479,879.00</b>	<b>\$504,738.00</b>	<b>\$574,544.00</b>						
<b>TOTAL IRWD CAPITAL IMPROVEMENTS</b>				<b>\$1,234,215.81</b>	<b>\$1,056,852.00</b>	<b>\$1,158,736.00</b>	<b>\$1,193,860.00</b>	<b>\$1,243,388.00</b>	<b>\$1,410,889.00</b>						

EXHIBIT "F"

CHANGE NO.: 3
DATE:

POTENTIAL CHANGE OF WORK ACKNOWLEDGEMENT & VALUE
(FOR IRWD CAPITAL IMPROVEMENTS)

The purpose of this form is to acknowledge a change in work for the intent of reimbursement of costs. Upon acceptance a change order will be issued.

Contract No.: 20351601 (RCO#1694) Owner: Heritage Fields El Toro, LLC

Sewer
Domestic Water
Reclaim Water
Other [X]

Contractor: FYDAQ
Design Engineer:
IRWD Mgr. Kelly Lew

Project Description: Bid results for District 3 Marine Way Sewer. Additional scope of work including D3 Marine Way Sewer IRWD Code 6376 Capital facilities, geotechnical observation/testing, field coordination, survey and staking and archeo/paleo monitoring. Revision C of Plans.

PART A - POTENTIAL CHANGE OF WORK:

Plan Revision Required: [ ] YES [X] NO Estimated Cost: \$226,934.00

Change Initiated By:

Work Description:

- 1. Submitted by: [Signature] Owner Representative / Date
2a. In IRWD's opinion the aforementioned work does [X] does not [ ] qualify as a potential change in work.
2b. IRWD comments (required if representative does not concur with the potential change):
2c. Reviewed by: IRWD Representative / Date
3. Received and Recorded by: Owner Representative / Date

PART B - CHANGE OF WORK VALUE: \$226,934.00

- Detailed Backup Attached [X]
1. Submitted by: [Signature] Owner Representative / Date
2. Recommended by: IRWD Representative / Date

June 25, 2018

Prepared by: B. Rios/K. Lew

Submitted by: K. Burton *K.B.*

Approved by: Paul A. Cook *cc for Pa*

## CONSENT CALENDAR

### TUSTIN LEGACY MOFFETT DRIVE AND LEGACY ROAD CAPITAL DOMESTIC AND RECYCLED WATER FACILITIES BUDGET INCREASE AND CONTRACT CHANGE ORDER

#### SUMMARY:

The City of Tustin (City) is close to completion on the Moffett Drive and Legacy Road project that includes the construction of streets, storm drains, domestic water, sewer, and recycled water improvements. As part of the project, the City constructed IRWD capital domestic and recycled water facilities within Moffett Drive and Legacy Road. The project encountered significant unforeseen utility crossings that required revisions to pipeline alignments and materials. Staff recommends that the Board:

- Authorize a budget increase in the amount of \$160,000, from \$643,000 to \$803,000, for Project 10260 Capital Domestic Facilities;
- Authorize a budget increase in the amount of \$125,000, from \$643,000 to \$768,000, for Project 10261 Capital Recycled Facilities; and
- Approve Contract Change Order No. 2 in the amount of \$219,711 for tasks related to changes to the construction scope of work for the Moffett Drive and Legacy Road Capital Domestic and Recycled Water Facilities.

#### BACKGROUND:

The City is close to completion of the Moffett Drive and Legacy Road Capital Domestic and Recycled water facilities under the terms of an existing Reimbursement Agreement between IRWD and the City. In December 2017 the Board authorized the General Manager to accept the City's construction contract for the Moffett Drive and Legacy Road Capital Domestic and Recycled facilities in the amount of \$758,337. The project consists of approximately 1,000 feet of 16-inch domestic water pipeline, 3,600 feet of 12-inch domestic water pipeline, 900 feet of 16-inch recycled water pipeline and 3,300 feet of 12-inch recycled water pipeline. Construction of the pipeline began in December 2017 and is expected to be completed soon. The improvements are shown in Exhibit "A".

#### Contract Change Order No. 2:

The project encountered several utility conflicts with existing storm drain and utility trenches across Tustin Ranch Road that were unknown during design. Pothole information provided to the engineer during construction resulted in design revisions that required vertical realignment, alternative materials and additional fittings to resolve the crossing conflicts of these existing utilities with the domestic and recycled pipelines. Additionally, Contract Change Order No. 2 includes the addition of various non-contract appurtenances such as air vacuum release assemblies, additional tees, bends and stubs that were added during construction.

FISCAL IMPACTS:

Projects 10260 and 10261 are included in the FY 2018-19 Capital Budget. Staff requests a budget increase in the amount of \$160,000 for Project 10260 and a budget increase in the amount of \$125,000 for Project 10261 as shown in the table below:

Project No.	Current Budget	Addition <Reduction>	Total Budget
10260	\$643,000	\$160,000	\$803,000
10261	\$643,000	\$125,000	\$768,000

ENVIRONMENTAL COMPLIANCE:

This project is subject to CEQA and is in conformance with the California Code of Regulations Title 14, Chapter 3, Article 7. A Joint Environmental Impact Statement/Environmental Impact Report was certified by the City of Tustin and the Department of the Navy on January 3, 2000 (SCH 1982040906).

COMMITTEE STATUS:

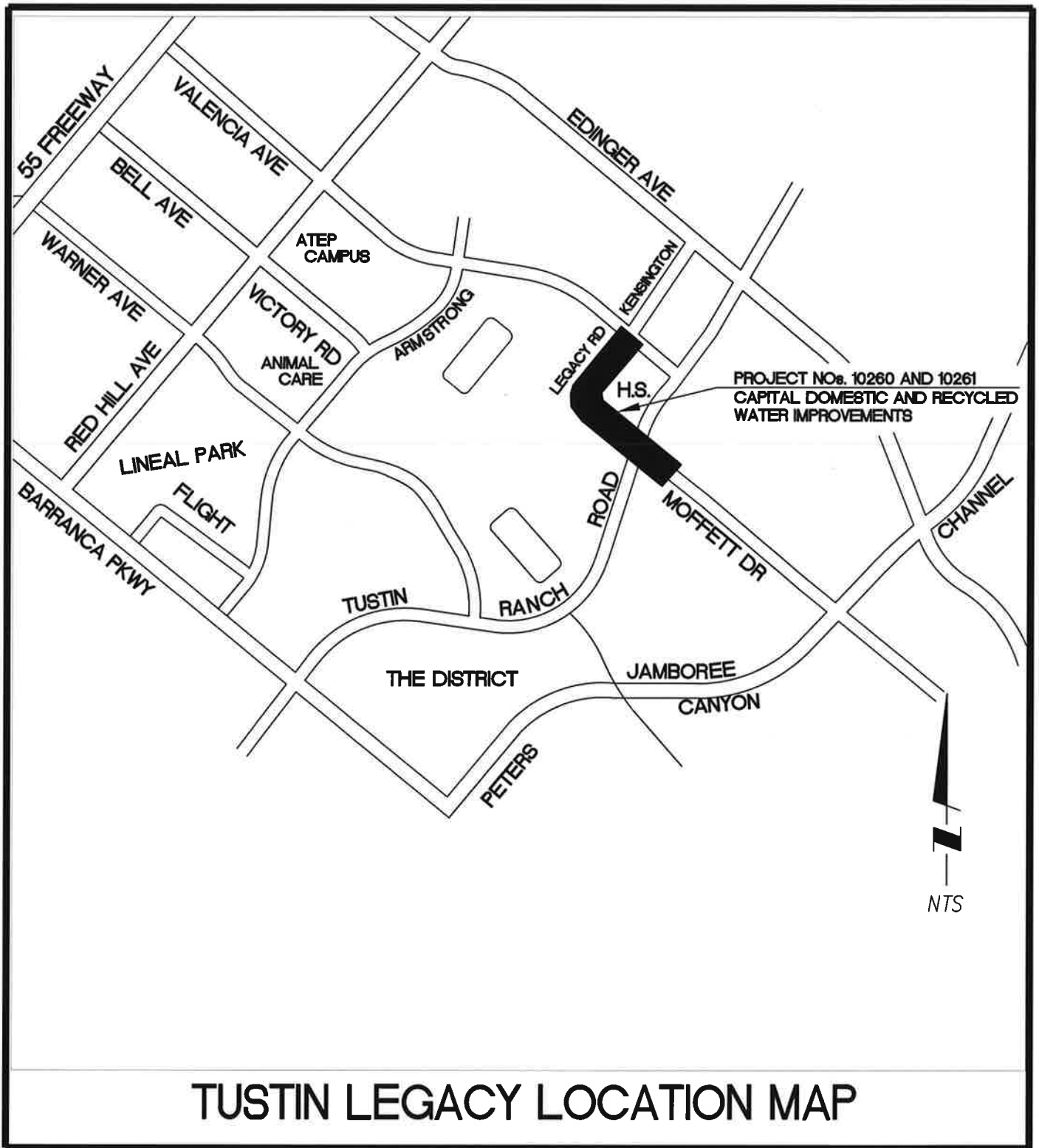
This item was reviewed by the Engineering and Operations Committee on June 19, 2018.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE A BUDGET INCREASE IN THE AMOUNT OF \$160,000, FROM \$643,000 TO \$803,000, FOR PROJECT 10260; AUTHORIZE A BUDGET INCREASE IN THE AMOUNT OF \$125,000, FROM \$643,000 TO \$768,000, FOR PROJECT 10261; AND APPROVE CONTRACT CHANGE ORDER NO. 2 IN THE AMOUNT \$219,711 FOR THE MOFFETT DRIVE AND LEGACY ROAD CAPITAL DOMESTIC AND RECYCLED WATER IMPROVEMENTS.

LIST OF EXHIBITS:

- Exhibit "A" – Project Location Map
- Exhibit "B" – Contract Change Order Summary



TUSTIN LEGACY LOCATION MAP

EXHIBIT "A"



# TUSTIN



BUILDING OUR FUTURE  
 HONORING OUR PAST

## EXHIBIT "B"

### CITY OF TUSTIN PUBLIC WORKS DEPARTMENT CONTRACT CHANGE ORDER

Project: Moffett Drive and Legacy Road Extension Roadway Construction Project

Project Number: 70230 & 70231 Change Order Number: No. 2

To (Contractor): SUKUT CONSTRUCTION, LLC.

You are hereby directed to make the herein changes from the plans and specifications or do the following described work not included in the plans and specifications on this contract.

NOTE: THIS CHANGE ORDER IS NOT EFFECTIVE UNTIL APPROVED BY THE CITY ENGINEER.

Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

Change requested by: Joseph C. Blum

#### CHANGE IN CONTRACT ITEMS

The following changes are hereby made to the contract:

**IRWD CAPITAL PROJECT NOS. 10260 & 10261**  
**IRWD CODE 7013**

CONTRACT ITEM		DOMESTIC WATER (CAPITAL IRWD)			
NO.	DESCRIPTION	UNIT PRICE	QTY	UNIT	AMOUNT
134	12" PVC, C900, DR 14	\$55.00	-3508	LF	-\$192,940.00
135	12" BUTTERFLY VALVE, CL 150B, FLANGED, VALVE BOX PER IRWD STD. DRAWING W-22	\$3,600.00	-15	EACH	-\$54,000.00
136	12" X 12" X 12" X 12" D. I. CROSS, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$1,330.00	-1	EACH	-\$1,330.00
137	12" X 12" X 12" D. I. CUT-IN TEE, FLANGED, W/ FLANGED COUPLING ADAPTER AND THRUST BLOCK PER IRWD STD. DRAWING W-16 & W-19	\$6,300.00	-2	EACH	-\$12,600.00
138	12" X 12" X 12" D. I. FLANGED AND THRUST BLOCK PER IRWD STD. DRAWING W-16	\$1,000.00	-2	EACH	-\$2,000.00
139	12" X 12" X 8" D. I. TEE, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$890.00	-3	EACH	-\$2,670.00
140	12" X 12" X 6" D. I. TEE, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$867.00	-1	EACH	-\$867.00
141	12" X 12" X 4" D. I. TEE, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$884.00	-1	EACH	-\$884.00
142	12" 90° D. I. BEND, PO X PO, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$552.00	-1	EACH	-\$552.00
143	16" 45° D. I. BEND, PO X PO, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$485.00	-2	EACH	-\$970.00
144	12" 11.25° D. I. BEND, PO X PO, W/ THRUST BLOCK PER IRWD STD. DWG. W-16	\$445.00	-7	EACH	-\$3,115.00



145	12" 11.25° D. I. BEND, FE X MJ, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$680.00	-1	EACH	-\$680.00
146	12" 11.25° D. I. BEND, MJ X MJ, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$570.00	-1	EACH	-\$570.00
147	12" D. I. FE X PO ADAPTER	\$600.00	-21	EACH	-\$12,600.00
148	12" X 8" D. I. ECCENTRIC REDUCER, FE X PO	\$470.00	-3	EACH	-\$1,410.00
149	2" AIR-VAC ASSEMBLY, CASE 1, PER IRWD STD. DRAWING W-11	\$4,260.00	-3	EACH	-\$12,780.00
150	TEMPORARY FLUSH-OUT ASSEMBLY PER IRWD STD. DRAWING W-12	\$2,060.00	-2	EACH	-\$4,120.00
151	16" X 12" D. I. ECCENTRIC REDUCER (SOFFIT FLAT), FE X PO	\$680.00	-1	EACH	-\$680.00
152	16" X 12" D. I. ECCENTRIC REDUCER (INVERT FLAT), FLANGED	\$680.00	-1	EACH	-\$680.00
153	16" PVC, C905, DR 18	\$69.00	-1084	LF	-\$74,796.00
154	16" BUTTERFLY VALVE, CL 150B, FLANGED, VALVE BOX PER IRWD STD. DRAWING W-22	\$5,400.00	-1	EACH	-\$5,400.00
155	16" X 16" X 6" D. I. CUT-IN TEE, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$5,750.00	-1	EACH	-\$5,750.00
156	16" D. I. FE X PO ADAPTER	\$645.00	-2	EACH	-\$1,290.00
157	16" 22.5° D. I. BEND, FE X MJ, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$1,300.00	-1	EACH	-\$1,300.00
158	16" 22.5° D. I. BEND, MJ X MJ, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$925.00	-1	EACH	-\$925.00
159	12" 11.25° D. I. BEND, PO X FE, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$1,100.00	-1	EACH	-\$1,100.00
<b>DOMESTIC WATER (CAPITAL IRWD) SUBTOTAL</b>					<b>-\$396,009.00</b>

CONTRACT ITEM		RECLAIMED WATER (CAPITAL IRWD)			
NO.	DESCRIPTION	UNIT PRICE	QTY	UNIT	AMOUNT
160	12" PVC (PURPLE), C900, DR14	\$56.00	-3420	LF	-\$191,520.00
161	12" BUTTERFLY VALVE, CL 150B, FLANGED, VALVE BOX PER IRWD STD. DRAWING W-22	\$3,550.00	-6	EACH	-\$21,300.00
162	16" X 16" X 16" X 16" D. I. CROSS, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$2,100.00	-1	EACH	-\$2,100.00
163	12" X 12" X 12" X 12" D. I. CROSS, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$1,400.00	-1	EACH	-\$1,400.00
164	12" X 12" X 4" D. I. TEE, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$1,125.00	-1	EACH	-\$1,125.00
165	6" X 6" X 6" D. I. CUT-IN TEE, FLANGED, W/ FLANGED COUPLING ADAPTER & THRUST BLOCK PER IRWD STD. DRAWING W-16 & W-19	\$1,830.00	-1	EACH	-\$1,830.00
166	16" X 12" D. I. ECCENTRIC REDUCER (SOFFIT FLAT), FE X FE	\$815.00	-1	EACH	-\$815.00
167	12" X 6" D. I. ECCENTRIC REDUCER (SOFFIT FLAT), PO X FE	\$1,185.00	-1	EACH	-\$1,185.00
168	12" D. I. FE X PO ADAPTER	\$425.00	-7	EACH	-\$2,975.00
169	12" 22.5° D. I. BEND, MJ X MJ, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$575.00	-4	EACH	-\$2,300.00
170	12" 22.5° D. I. BEND, PO X PO, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$450.00	-1	EACH	-\$450.00
171	12" 11.25° D. I. BEND, FE X PO, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$632.00	-1	EACH	-\$632.00
172	12" 11.25° D. I. BEND, PO X PO, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$445.00	-4	EACH	-\$1,780.00

173	6" BUTTERFLY VALVE, CL 150B, FLANGED, VALVE BOX PER IRWD STD. DRAWING W-22	\$1,950.00	-4	EACH	-\$7,800.00
174	2" AIR-VAC ASSEMBLY, CASE 1, PER IRWD STD. DRAWING W-11	\$4,400.00	-3	EACH	-\$13,200.00
175	16" PVC (PURPLE), C905, DR18	\$71.00	-948	LF	-\$67,308.00
176	16" X 16" X 6" D. I. TEE, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$1,450.00	-1	EACH	-\$1,450.00
177	16" D. I. FE X PO ADAPTER	\$800.00	-2	EACH	-\$1,600.00
178	16" X 6" D. I. ECCENTRIC REDUCER (SOFFIT FLAT), PO X FE	\$1,444.00	-1	EACH	-\$1,444.00
179	4" BLOW OFF ASSEMBLY, CASE 3, PER IRWD STD. DRAWING W-14	\$10,225.00	-1	EACH	-\$10,225.00
180	6" X 4" D. I. ECCENTRIC REDUCER (INVERT FLAT), PO X FE, W/THRUST BLOCK PER IRWD STD. DRAWING W-16	\$145.00	-1	EACH	-\$145.00
181	6" BUTTERFLY VALVE, CL 150B, FLANGED VALVE BOX PER IRWD STD. DRAWING W-22	\$1,950.00	-1	EACH	-\$1,950.00
182	12" X 4" D. I. ECCENTRIC REDUCER, FE X PO	\$405.00	-2	EACH	-\$810.00
183	REMOVE TEMPORARY FLUSH-OUT & JOIN EXISTING 16" PVC RECYCLED WATER LINE	\$3,140.00	-1	EACH	-\$3,140.00
184	2" AIR-VAC ASSEMBLY, CASE 1, PER IRWD STD. DRAWING W-11	\$4,100.00	-1	EACH	-\$4,100.00
185	16" 45° D. I. BEND, MJ X MJ, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$940.00	-4	EACH	-\$3,760.00
186	24" STEEL CASING PER IRWD STD. DRAWING W- 21	\$205.00	-30	LF	-\$6,150.00
187	CASING TEST STATION PER IRWD STD. DRAWING CP-3	\$2,600.00	-2	EACH	-\$5,200.00
188	12" 90° D. I. BEND, PO X PO, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$552.00	-2	EACH	-\$1,104.00
189	INSTALL 12" X 12" X 12" D. I. TEE, FANGED, W/THRUST BLOCK PER IRWD STD. DRAWING W-16	\$970.00	-1	EACH	-\$970.00
<b>RECLAIMED WATER (CAPITAL IRWD) SUBTOTAL</b>					<b>-\$359,768.00</b>

<b>SUMMARY OF CONTRACT ITEM CHANGES</b>	
<b>DOMESTIC WATER (CAPITAL IRWD)</b>	<b>-\$396,009.00</b>
<b>RECLAIMED WATER (CAPITAL IRWD)</b>	<b>-\$359,768.00</b>
<b>TOTAL CONTRACT ITEM CHANGE</b>	<b>-\$755,777.00</b>

ADDITIONAL WORK (NON-CONTRACT ITEM)					
ITEM		DOMESTIC WATER (CAPITAL IRWD)			
NO.	DESCRIPTION	UNIT PRICE	QTY	UNIT	AMOUNT
1	12" PVC, C900, DR 14	\$55.00	3560	LF	\$195,800.00
2	12" BUTTERFLY VALVE, CL 150B, FLANGED, VALVE BOX PER IRWD STD. DRAWING W-22	\$3,600.00	15	EA	\$54,000.00
3	12" X 12" X 12" X 12" D. I. CROSS, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$1,330.00	1	EA	\$1,330.00
4	12" X 12" X 12" X 12" D. I. CUT-IN TEE, FLANGED, W/ FLANGED COUPLING ADAPTER AND THRUST BLOCK PER IRWD STD. DRAWING W-16 & W-19	\$6,300.00	2	EA	\$12,600.00
5	12" X 12" X 8" D. I. TEE, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$890.00	5	EA	\$4,450.00
6	12" X 12" X 6" D. I. TEE, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$867.00	2	EA	\$1,734.00
7	12" X 12" X 4" D. I. TEE, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$884.00	1	EA	\$884.00
8	16" 45° D. I. BEND, PO X PO, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$485.00	2	EA	\$970.00
9	12" 11.25° D. I. BEND, PO X PO, W/ THRUST BLOCK PER IRWD STD. DWG. W-16	\$445.00	6	EA	\$2,670.00
10	12" 11.25° D. I. BEND, FLG'D, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$680.00	3	EA	\$2,040.00
11	12" 11.25° D. I. BEND, FE X MJ, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$570.00	1	EA	\$570.00
12	12" D. I. FE X PO ADAPTER	\$600.00	26	EA	\$15,600.00
13	12" X 8" D. I. ECCENTRIC REDUCER, FE X PO	\$470.00	1	EA	\$470.00
14	2" AIR-VAC ASSEMBLY, CASE 1, PER IRWD STD. DRAWING W-11	\$4,260.00	4	EA	\$17,040.00
15	INSTALL TEMPORARY FLUSH-OUT ASSEMBLY PER IRWD STD. DRAWING W-12	\$2,060.00	2	EA	\$4,120.00
16	16" X 12" D. I. ECCENTRIC REDUCER (INVERT FLAT), FLANGED	\$680.00	2	EA	\$1,360.00
17	16" PVC, C905, DR 18	\$69.00	1057	LF	\$72,933.00
18	16" BUTTERFLY VALVE, CL 150B, FLANGED, VALVE BOX PER IRWD STD. DRAWING W-22	\$5,400.00	4	EA	\$21,600.00
19	16" X 16" X 6" D. I. CUT-IN TEE, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$5,750.00	4	EA	\$23,000.00
20	16" D. I. FE X PO ADAPTER	\$645.00	13	EA	\$8,385.00
21	16" 22.5° D. I. BEND, FE X MJ, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$1,300.00	1	EA	\$1,300.00
22	REMOVE TEMPORARY FLUSH-OUT, 8" PVC AND 12"x8" REDUCER AND JOIN EX. 12" BUTTERFLY VALVE	\$7,500.00	1	EA	\$7,500.00
23	2" AIR-VAC ASSEMBLY, CASE 2, PER IRWD STD. DRAWING W-11	\$5,880.00	1	EA	\$5,880.00
24	16" 22.5° D. I. BEND, FLG'D, W/ THRUST BLOCK PER IRWD STD. DRAWING W-15	\$1,750.00	1	EA	\$1,750.00
25	INSTALL 12" DIP, CL 350, SPOOL, FLG'D, W/TRENCH & BEDDING PER IRWD STD. DWG. W-17. INSTALL WITH 50 LBS ANODE AND BOND ALL JOINTS & FITTINGS PER IRWD STD. DWG. CP-9	\$750.00	33	LF	\$24,750.00
26	INSTALL 16"x16"x8" D.I. TEE, FLG'D W/ THRUST BLOCK PER IRWD STD. DWG. W-16	\$7,125.00	3	EA	\$21,375.00

27	INSTALL 16" DIP, CL 300, SPOOL, FLG'D, W/TRENCH & BEDDING PER IRWD STD. DWG. W-17. BOND ALL JOINTS PER IRWD STD. DWG. CP-9	\$825.00	6	LF	\$4,950.00
28	INSTALL 12" 22.5 DEGREE D.I. BEND, POxPO, W/ THRUST BLOCK PER IRWD STD. DWG. W-16	\$900.00	5	EA	\$4,500.00
29	INSTALL 12" 90 DEGREE D.I. BEND, FExPO, W/ THRUST BLOCK PER IRWD STD. DWG. W-16	\$1,450.00	1	EA	\$1,450.00
30	INSTALL 16"x16"x12" D.I. TEE, FLG'D, W/ THRUST BLOCK PER IRWD STD. DWG. W-16	\$7,450.00	1	EA	\$7,450.00
31	INSTALL 12" 45 DEGREE D.I. BEND, FExMJ, W/ THRUST BLOCK PER IRWD STD. DWG. W-16	\$950.00	2	EA	\$1,900.00
32	INSTALL 12" 45 DEGREE D.I. BEND, FLG'D, W/ THRUST BLOCK PER IRWD STD. DWG. W-16	\$1,050.00	2	EA	\$2,100.00
33	INSTALL 12" 11.25 D.I. BEND, FExPO, W/ THRUST BLOCK PER IRWD STD. DWG. W-16	\$950.00	1	EA	\$950.00
34	INSTALL 12" 45 DEGREE D.I. BEND, POxPO, W/ THRUST BLOCK PER IRWD STD. DWG. W-16	\$485.00	2	EA	\$970.00
35	INSTALL 12" 45 DEGREE D.I. BEND, POxFE, W/ THRUST BLOCK PER IRWD STD. DWG. W-16	\$950.00	1	EA	\$950.00
<b>DOMESTIC WATER (CAPITAL IRWD) SUBTOTAL</b>					<b>\$529,331.00</b>

ITEM NO.	DESCRIPTION	RECLAIMED WATER (CAPITAL IRWD)			
		UNIT PRICE	QTY	UNIT	AMOUNT
36	12" PVC (PURPLE), C900, DR14	\$56.00	3383	LF	\$189,448.00
37	12" BUTTERFLY VALVE, CL 150B, FLANGED, VALVE BOX PER IRWD STD. DRAWING W-22	\$3,550.00	12	EA	\$42,600.00
38	12" X 12" X 12" X 12" D. I. CROSS, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$1,400.00	1	EA	\$1,400.00
39	12" X 12" X 4" D. I. TEE, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$1,125.00	2	EA	\$2,250.00
40	6" X 6" X 6" D. I. CUT-IN TEE, FLANGED, W/ FLANGED COUPLING ADAPTER & THRUST BLOCK PER IRWD STD. DRAWING W-16 & W-19	\$1,830.00	1	EA	\$1,830.00
41	16" X 12" D. I. ECCENTRIC REDUCER (SOFFIT FLAT), FE X FE	\$815.00	1	EA	\$815.00
42	INSTALL 12" DIP, CL350, SPOOL FLG'D, W/TRENCH & BEDDING PER IRWD STD. DWG W-17. INSTALL W/ 60 LBS ANNODE AND BOND ALL JOINTS & FITTINGS PER IRWD STD. DWG CP-9	\$590.00	22	LF	\$12,980.00
43	12" D. I. FE X PO ADAPTER	\$425.00	9	EA	\$3,825.00
44	12" 22.5° D. I. BEND, PO X PO, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$445.00	10	EA	\$4,450.00
45	6" BUTTERFLY VALVE, CL 150B, FLANGED, VALVE BOX PER IRWD STD. DRAWING W-22	\$1,950.00	3	EA	\$5,850.00
46	2" AIR-VAC ASSEMBLY, CASE 1, PER IRWD STD. DRAWING W-11	\$4,400.00	4	EA	\$17,600.00
47	16" PVC (PURPLE), C905, DR18	\$71.00	841	LF	\$59,711.00
48	16" X 16" X 6 D. I. TEE, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$1,450.00	1	EA	\$1,450.00
49	16" D.I. FExPO ADAPTER	\$800.00	4		\$3200.00
50	12" X 4" D. I. ECCENTRIC REDUCER, FE X PO	\$405.00	1	EA	\$405.00
51	REMOVE TEMPORARY FLUSH-OUT & JOIN EXISTING 16" PVC RECYCLED WATER LINE	\$3,140.00	1	EA	\$3,140.00
52	2" AIR-VAC ASSEMBLY, CASE 1, PER IRWD STD. DRAWING W-11	\$4,100.00	1	EA	\$4,100.00

53	24" STEEL CASING PER IRWD STD. DRAWING W- 21	\$205.00	41	LF	\$8,405.00
54	CASING TEST STATION PER IRWD STD. DRAWING CP-3	\$2,600.00	2	EA	\$5,200.00
55	12" 90° D. I. BEND, PO X PO, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$552.00	1	EA	\$552.00
56	INSTALL 16" X 16" X 12" X 12" D. I. CROSS, FLANGED, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	2,100.00	1	EA	\$2,100.00
57	12" 22.5° D. I. BEND, FE X MJ, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$950.00	2	EA	\$1,900.00
58	INSTALL 16" DIP, CL 300, SPOOL, FLG'D, W/TRENCH & BEDDING PER IRWD STD. DWG. W-17, INSTALL WITH 60LBS ANODE AND BOND ALL JOINTS & FITTINGS PER IRWD STD. DWG. CP-9	\$442.00	103	LF	\$45,526.00
59	16" 45° D. I. BEND, FE X MJ, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$1,940.00	3	EA	\$5,820.00
60	12" 22.5° D. I. BEND, FLG'D, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$1,300.00	3	EA	\$3,900.00
61	INSTALL 16" 45 DEGREE D.I. BEND, FLG'D, W/ THRUST BLOCK PER IRWD STD. DWG. W-16	\$1,850.00	1	EA	\$1,850.00
62	INSTALL 6" D.I. FExPO ADAPTER	\$600.00	2	EA	\$1,200.00
63	INSTALL 12"x6" D.I. ECENTRIC REDUCER, FExPO	\$900.00	1	EA	\$900.00
64	12" 45° D. I. BEND, POxPO, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$900.00	3	EA	\$2,700.00
65	12" 45° D. I. BEND, POxFE, W/ THRUST BLOCK PER IRWD STD. DRAWING W-16	\$950.00	2	EA	\$1,900.00
66	INSTALL 16"X16"X6"X6" D.I. CROSS, FLG'D, W/THRUST BLOCK	\$8,500.00	1	EA	\$8,500.00
67	INSTALL 6x4 D.I. ECCENTRIC REDUCER, FExPO	\$650.00	1	EA	\$650.00
<b>RECLAIMED WATER (CAPITAL IRWD) SUBTOTAL</b>					<b>\$446,157.00</b>

<b>SUMMARY OF NON-CONTRACT ITEM CHANGES</b>	
<b>DOMESTIC WATER (CAPITAL IRWD)</b>	<b>\$529,331.00</b>
<b>RECLAIMED WATER (CAPITAL IRWD)</b>	<b>\$446,157.00</b>

<b>TOTAL NON-CONTRACT ITEM CHANGE</b>			<b>\$975,488.00</b>
<b>SUMMARY OF LINE ITEM CHANGES</b>			
	CONTRACT	NON- CONTRACT	TOTAL
<b>DOMESTIC WATER (CAPITAL IRWD)</b>	<b>-\$396,009.00</b>	<b>\$529,331.00</b>	<b>\$133,322.00</b>
<b>RECLAIMED WATER (CAPITAL IRWD)</b>	<b>-\$359,768.00</b>	<b>\$446,157.00</b>	<b>\$99,479.00</b>
<b>TOTALS</b>	<b>-\$755,777.00</b>	<b>\$975,488.00</b>	<b>\$219,711.00</b>
<b>GRAND TOTAL CHANGE ORDER NO. 2</b>			<b>\$219,711.00</b>
Payment for elimination/additions of bid items will be reflected on the progress payments.			

<b>CHANGE TO CONTRACT PRICE</b>
The contractor shall be paid a sum of <b>\$219,711.00</b> for all work included in this change order. This sum constitutes full compensation, including mark-ups and extended overhead. The compensation (time and cost) set forth in this Change Order comprises the total compensation due the Contractor, the Subcontractors and all suppliers, for the work or change defined in this Change Order, including all impact on any unchanged work. By signing this Change Order, the Contractor acknowledges and agrees, on behalf of himself, all Subcontractors and all suppliers, that the stipulated compensation includes payment for all work contained in this Change Order, plus all payment for the interruption of schedules, extended overhead costs, delay, and all impact, ripple effect or cumulative impact on all other work under this Contract. The signing of this Change Order shall indicate that the Change Order constitutes full mutual accord and satisfaction for the change, and that the time and/or cost under the Change Order constitutes the total equitable adjustment owed the Contractor, all Subcontractors, and all suppliers, as a result of this change. The Contractor, on behalf of himself, all Subcontractors and all suppliers, agrees to waive all rights, without exception or reservation of any kind whatsoever, to file any further claim or request for equitable adjustment of any type, for any reasonably foreseeable cause that shall arise out of or as a result of this Change Order or the impact of this Change Order on the remainder of the work under this Contract
<b>TOTAL COST THIS CHANGE ORDER: INCREASE: \$219,711.00</b>
By reason of this order the contract time completion will be adjusted as follows: <u>  0  </u> working days

<b>SUMMARY OF CONTRACT CHANGE ORDERS</b>	
ORIGINAL CONTRACT AMOUNT	\$6,989,548.10
COST OF PRECEDING CHANGE ORDERS	\$269,265.00
COST OF THIS CHANGE ORDER	<b>\$219,711.00</b>
COST OF CHANGE ORDERS TO DATE	<b>\$488,976.00</b>
<b>REVISED CONTRACT AMOUNT</b>	<b>\$7,478,524.10</b>

We the undersigned contractor have given careful consideration to the change proposed and hereby agree, if this proposal is approved, that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefore the prices shown above.

<b>ACCEPT DATE</b>	<b>CONTRACTOR</b>
<b>BY</b>	<b>TITLE</b>
<b>APPROVAL RECOMMENDED BY _____ DATE _____</b> <b>CONSTRUCTION MANAGER/CONTRACT ADMINISTRATOR</b>	
<b>APPROVED BY <u>KNL</u> _____ DATE _____</b> <b>IRWD</b>	
<b>APPROVED BY _____ DATE _____</b> <b>CITY ENGINEER</b>	



June 25, 2018

Prepared by: A. Murphy/M. Cortez

Submitted by: K. Burton *KLB*

Approved by: Paul A. Cook *cc for PC*

## CONSENT CALENDAR

### ELDERWOOD SEWER UPSIZING CONSTRUCTION AWARD

#### SUMMARY:

The Elderwood Sewer Upsizing project will construct improvements to the existing sewer within the street of Elderwood in the City of Lake Forest. Staff recommends that the Board authorize the General Manager to execute a construction contract with GCI Construction in the amount of \$183,260 for the Elderwood Sewer Upsizing project.

#### BACKGROUND:

Due to the addition of sewage generated from the water treatment process at Baker Water Treatment Plant, as well as a future flow of 591,000 gallons per day of sewage from the Serrano Summit development that is currently in construction, sewer flow rates in the Serrano Highlands neighborhood in Lake Forest have increased significantly. Hydraulic modeling on the Serrano Highlands collections system indicates that the future sewer flow rates will exceed the design capacity in one 260 foot, 8-inch diameter sewer segment in Elderwood. This project will upsize this sewer segment to a 10-inch diameter pipe and also install a cured in place pipe (CIPP) liner in the sewer segment immediately downstream due to circumferential cracks. The sewer segments are shown in Exhibit "A".

#### Construction Bid:

The project was advertised to a select list of ten pipeline contractors on May 14, 2018. The bid opening was held on June 14, 2018, with bids received from three contractors: GCI Construction, Paulus Engineering and TE Roberts. The apparent low bidder is GCI Construction with a bid of \$183,260. The Bid Summary is attached as Exhibit "B". The engineer's estimate of \$120,714 was based on previously completed sewer projects; however, staff believes the bids received reflect the true cost of the project. The cost difference between the bids and the engineer's estimate is due to higher unit costs for the pipe replacement and CIPP lining. GCI Construction has performed well on recent sewer projects such as the San Joaquin Marsh Campus Lift Station Rehabilitation and the Vault Lid Replacement at the Duck Club.

#### FISCAL IMPACTS:

Project 10095 for the Elderwood Sewer Upsizing is included in the FY 2018-19 Capital Budget with 100% of the cost coming from development funds. The existing budget is sufficient to fund construction of the project.



ENVIRONMENTAL COMPLIANCE:

This project is exempt from the California Environmental Quality Act (CEQA) and in conformance with California Code of Regulation, Title 14, Chapter 3, Section 15282 in that the installation of new pipeline or maintenance, repair restoration, removal, or demolition of an existing pipeline as set forth in Section 21080.21 of the Public Resources Code, as long as the project does not exceed one mile in length. A Notice of Exemption for the project was prepared and filed with the County of Orange on June 12, 2018.

COMMITTEE STATUS:

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 CONSTRUCTION CONTRACT WITH GCI CONSTRUCTION IN THE AMOUNT OF \$183,260 FOR THE ELDERWOOD SEWER UPSIZING, PROJECT 10095.

LIST OF EXHIBITS:

Exhibit "A" – Project Site Map

Exhibit "B" – Bid Summary

EXHIBIT A  
ELDERWOOD SEWER UPSIZING



## Exhibit B

Bid Opening: Thursday, June 14, 2018 @ 2:00 p.m.

Irvine Ranch Water District  
Bid Summary  
For  
Elderwood Sewer Upsizing  
Project Number 10095

Entered By: L.Gates

Item No.	Description	Qty	Unit	Engineer's Estimate		1 GCI Construction, Inc. San Clemente, CA		2 Paulus Engineering, Inc. Anaheim, CA	
				Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount
<b>Base Bid Items</b>									
1	Mobilization and Demobilization	1	LS	\$5,900.00	\$5,900.00	\$15,000.00	\$15,000.00	\$15,771.00	\$15,771.00
2	Potholing	1	LS	\$2,400.00	\$2,400.00	\$4,000.00	\$4,000.00	\$9,975.00	\$9,975.00
3	Spill Containment Plan and Controls for Environmental Protection	1	LS	\$1,600.00	\$1,600.00	\$2,500.00	\$2,500.00	\$700.00	\$700.00
4	Temporary Bypass Pumping and Site Restorations	1	LS	\$3,200.00	\$3,200.00	\$16,000.00	\$16,000.00	\$10,000.00	\$10,000.00
5	Audio-Video Documentation of Existing Conditions	1	LS	\$1,100.00	\$1,100.00	\$3,200.00	\$3,200.00	\$2,051.00	\$2,051.00
6	Post-Construction CCTV Inspection	520	LF	\$1.00	\$520.00	\$15.00	\$7,800.00	\$5.00	\$2,600.00
7	Construct 10" SDR-35 PVC Sewer Pipe	260	LF	\$190.00	\$49,400.00	\$260.00	\$67,600.00	\$485.00	\$126,100.00
8	Tie-in to Existing Manhole and Re-channel	2	EA	\$3,150.00	\$6,300.00	\$4,000.00	\$8,000.00	\$7,300.00	\$14,600.00
9	Remove and Replace 30" Frame, Cover, and Grade Rings on Existing 48" Manhole	2	EA	\$2,100.00	\$4,200.00	\$3,000.00	\$6,000.00	\$2,275.00	\$4,550.00
10	Remove and Replace 36" Frame, Cover, and Grade Rings on Existing 72" Manhole	1	EA	\$1,300.00	\$1,300.00	\$3,500.00	\$3,500.00	\$2,855.00	\$2,855.00
11	CIPP Rehabilitation of Existing 8" Sewer Pipe	260	LF	\$50.00	\$13,000.00	\$100.00	\$26,000.00	\$120.00	\$31,200.00
12	Restore Existing Laterals to Sewers Following CIPP Rehabilitation	8	EA	\$63.00	\$504.00	\$310.00	\$2,480.00	\$71.00	\$568.00
*13	Restore Existing Laterals to Sewers Following Pipe Replacement	6	EA	\$1,890.00	\$11,340.00	\$980.00	\$5,880.00	\$2,470.00	\$14,820.00
14	Asphalt Slurry Seal (Outside Trench Limits)	10,300	SF	\$1.50	\$15,450.00	\$1.00	\$10,300.00	\$1.00	\$10,300.00
15	Trench and Safety Measures	1	LS	\$3,500.00	\$3,500.00	\$4,000.00	\$4,000.00	\$2,134.00	\$2,134.00
**16	Final Record Drawings	1	LS	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00
<b>SUBTOTAL, Base Bid Items</b>									
Adjustment (+ or -)						\$0.00			
<b>TOTAL AMOUNT OF BID</b>						<b>\$120,714.00</b>		<b>\$183,260.00</b>	<b>\$249,224.00</b>
<b>NOTES:</b>									
				<b>Items</b>		<b>Manufacturers:</b>		<b>Manufacturers:</b>	
*Quantity for Item No. 13 differs on Engineer's Estimate (5ea) to Project Manual (6ea)				CIPP		National Lincr LLC		Sancon Engineering, Inc.	
**Amount for Item No. 16 differs on Engineer's Estimate (\$1,100) to Project Manual (\$1,000)				PVC Pipe		Vinyltech Corporation		Vinyltech Corporation	
				Manhole Frame,Cover,& Grade Rings		Alhambra Foundry		South Bay Foundry, Inc.	
						<b>Subcontractors:</b>		<b>Subcontractors:</b>	
						Sancon Engineering, Inc. - CIPP Lining		Sancon Engineering, Inc. - CIPP Lining	
						All American Asphalt - Grind,Cap,Slurry Seal		Roy Allan Slurry Seal, Inc. - Slurry Seal	

Irvine Ranch Water District  
 Bid Summary  
 For  
 Elderwood Sewer Upsizing  
 Project Number 10095

					<b>3</b>		
					<b>Engineer's Estimate</b>		
					<b>T.E. Roberts, Inc.</b>		
					<b>Orange, CA</b>		
Item No.	Description	Qty	Unit	Unit	Total	Unit	Total
				Price	Amount	Price	Amount
<b>Base Bid Items</b>							
1	Mobilization and Demobilization	1	LS	\$5,900.00	\$5,900.00	\$20,500.00	\$20,500.00
2	Potholing	1	LS	\$2,400.00	\$2,400.00	\$20,500.00	\$20,500.00
3	Spill Containment Plan and Controls for Environmental Protection	1	LS	\$1,600.00	\$1,600.00	\$3,500.00	\$3,500.00
4	Temporary Bypass Pumping and Site Restorations	1	LS	\$3,200.00	\$3,200.00	\$33,700.00	\$33,700.00
5	Audio-Video Documentation of Existing Conditions	1	LS	\$1,100.00	\$1,100.00	\$2,800.00	\$2,800.00
6	Post-Construction CCTV Inspection	520	LF	\$1.00	\$520.00	\$12.00	\$6,240.00
7	Construct 10" SDR-35 PVC Sewer Pipe	260	LF	\$190.00	\$49,400.00	\$468.00	\$121,680.00
8	Tie-in to Existing Manhole and Re-channel	2	EA	\$3,150.00	\$6,300.00	\$7,600.00	\$15,200.00
9	Remove and Replace 30" Frame, Cover, and Grade Rings on Existing 48" Manhole	2	EA	\$2,100.00	\$4,200.00	\$6,600.00	\$13,200.00
10	Remove and Replace 36" Frame, Cover, and Grade Rings on Existing 72" Manhole	1	EA	\$1,300.00	\$1,300.00	\$10,600.00	\$10,600.00
11	CIPP Rehabilitation of Existing 8" Sewer Pipe	260	LF	\$50.00	\$13,000.00	\$160.00	\$41,600.00
12	Restore Existing Laterals to Sewers Following CIPP Rehabilitation	8	EA	\$63.00	\$504.00	\$2,600.00	\$20,800.00
*13	Restore Existing Laterals to Sewers Following Pipe Replacement	6	EA	\$1,890.00	\$11,340.00	\$3,600.00	\$21,600.00
14	Asphalt Slurry Seal (Outside Trench Limits)	10,300	SF	\$1.50	\$15,450.00	\$1.43	\$14,729.00
15	Trench and Safety Measures	1	LS	\$3,500.00	\$3,500.00	\$5,000.00	\$5,000.00
**16	Final Record Drawings	1	LS	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00
<b>SUBTOTAL, Base Bid Items</b>						<b>\$120,714.00</b>	<b>\$352,649.00</b>
Adjustment (+ or -)						\$0.00	
<b>TOTAL AMOUNT OF BID</b>						<b>\$120,714.00</b>	<b>\$352,649.00</b>
<b>NOTES:</b>							
				<b>Items</b>		<b>Manufacturers:</b>	
*Quantity for Item No. 13 differs on Engineer's Estimate (Sea) to Project Manual (6ea)				CIPP		National Liner LLC	
**Amount for Item No. 16 differs on Engineer's Estimate (\$1,100) to Project Manual (\$1,000)				PVC Pipe		Vinyltech Corporation	
				Manhole Frame,Cover.& Grade Rings		South Bay Foundry, Inc.	
						<b>Subcontractors:</b>	
						Sancon Engineering, Inc. - CIPP Lining	
						Mission Paving - Slurry Seal	
						Rain for Rent - By-pass	
						Manhole Builders, Inc. - Manhole Re-Channeling	
						Morr-Is Tested - Video Inspection	
						Manhole Adjusting, Inc. - Adjust Manhole	



June 25, 2018

Prepared by: W. Stewart/S. Malloy

Submitted by: K. Burton *K.B.*

Approved by: Paul A. Cook *cc for pc*

## CONSENT CALENDAR

### MICHELSON WATER RECYCLING PLANT BIOSOLIDS AND ENERGY RECOVERY FACILITIES CONTRACT CHANGE ORDER NO. 84

#### SUMMARY:

Filanc/Balfour Beatty (FBB) is constructing the Michelson Water Recycling Plant (MWRP) Biosolids and Energy Recovery Facilities (Biosolids Project). Contract Change Order (CCO) No. 84 includes costs for electrical items related to the addition of grease pumps to the methane digester mixer system. Staff recommends that the Board approve CCO No. 84 in the amount of \$105,492.90 with FBB for the Biosolids Project.

#### BACKGROUND:

Construction of the Biosolids Project was awarded to FBB in March 2013 in the amount of \$163,465,940. The Biosolids Project will provide biosolids digestion, dewatering, energy production, and on-site sludge drying. The project includes excavation for subsurface structures; installation of foundation piles; three egg-shaped digesters; a state-of-the-art odor control system; a biogas conditioning system and power generation using microturbines; a fats, oil and grease (FOG) receiving station; and new utility services. These facilities are being constructed on the land north of IRWD's Operations Center, maintenance shops, water quality laboratory, and warehouse.

#### CCO No. 84:

Staff negotiated with FBB and agrees to the labor and material costs contained in CCO No. 84 in the amount of \$105,492.90. CCO No. 84 includes the following item:

- *Electrical Modifications Due to the Addition of Grease Pumps in the amount of \$105,492.90* – Based on the recommendation of the manufacturer of the mixers on top of the methane digesters, it was decided to add grease pumps to the mixers. The addition will result in better operation and preserve the manufacturer's warranty. This item is for the labor and material to install the necessary electrical modifications to allow for the addition of the grease pumps and for the associated SCADA programming. There is no additional cost for the grease pumps.

Staff recommends that the Board approve CCO No. 84 in the amount of \$105,492.90, which is attached as Exhibit “A”. The construction change order summary is attached as Exhibit “B”. The following is a summary of the change order categories:

Category	Total Amount	% of Original Contract
A - District Convenience/Initiation - Project Related	\$ 3,388,993.51	2.07%
B - Differing Site Conditions	\$12,764,549.66	7.81%
C - Design Oversight	\$ 3,595,641.37	2.20%
D - District Convenience/Initiation - Non-Project Related	\$ -	0.00%
E - Contractor Convenience/Initiation	\$ 98,302.54	0.06%
F - Contractor Requested Inspection Overtime	\$ (265,760.00)	-0.16%
<b>TOTAL (All Items A - F)</b>	<b>\$19,581,727.08</b>	<b>11.98%</b>

FISCAL IMPACTS:

The MWRP Biosolids and Energy Recovery Facilities Project 04286 is included in the FY 2018-19 Capital Budget. The existing budget is sufficient to fund the change order.

ENVIRONMENTAL COMPLIANCE:

The MWRP Biosolids and Energy Recovery Facilities is subject to the California Environmental Quality Act (CEQA) and in conformance with the California Code of Regulations Title 14, Chapter 3, Article 7, a Supplemental Environmental Impact Report (SEIR), SCH # 2011031091, was certified by IRWD at its October 22, 2012 meeting. The City of Irvine Planning Commission approved a conditional use permit for the IRWD Biosolids Project at its December 6, 2012 meeting.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on June 19, 2018.

RECOMMENDATION:

THAT THE BOARD APPROVE CONTRACT CHANGE ORDER NO. 84 IN THE AMOUNT OF \$105,492.90 WITH FILANC/BALFOUR BEATTY FOR ELECTRICAL ITEMS DUE TO THE ADDITION OF GREASE PUMPS TO THE METHANE DIGESTER MIXERS FOR THE MICHELSON WATER RECYCLING PLANT BIOSOLIDS AND ENERGY RECOVERY FACILITIES, PROJECT 04286.

LIST OF EXHIBITS:

- Exhibit “A” – Contract Change Order No. 84 with FBB
- Exhibit “B” – Construction Change Order Summary

# CONTRACT CHANGE ORDER



## Irvine Ranch Water District

15600 Sand Canyon Avenue  
 P.O. Box 57000  
 Irvine, CA 92619-7000  
 (949) 453-5300

### EXHIBIT "A. "

C.O. No. 84  
 Final  
 Project No. 04286

MWRP Biosolids and Energy Recovery Facilities

Project Title

Date: 05/02/2018

THE FOLLOWING CHANGE TO CONTRACT, DRAWINGS AND SPECIFICATIONS IS PROPOSED.	\$ ADDITIONS	\$ DELETIONS	DAYS ±
1. Electrical Modifications Due to the Addition of Grease Pumps (CR-619) PR 04286 Task 5.30	\$105,492.90	\$0.00	See Notes
Notes: 1. For all items noted above, the Contractor reserves the right to compensable and/or excusable time extensions provided that time impacts to the Project's critical path are demonstrated to be beyond the Contractor's control. 2. Contractor reserves any and all rights it has and otherwise does not waive or release any claims it may have for additional compensation related to impact, including but not limited to the cumulative effect of the number, nature, or extent of any changes or design clarifications. 3. The project completion date of October 31, 2017 per CCO No. 45 is unchanged by this Change Order.			
<b>TOTAL</b>	<b>\$105,492.90</b>	<b>\$0.00</b>	<b>0</b>

DAYS ±

1. NET AMOUNT THIS CHANGE ORDER	=	\$105,492.90	0
2. ORIGINAL CONTRACT AMOUNT	=	\$163,465,940.00	1,278
3. TOTAL PREVIOUS CHANGE ORDER(S)	=	\$19,476,234.18	368
4. TOTAL BEFORE THIS CHANGE ORDER (2+ 3)	=	\$182,942,174.18	1,646
5. PROPOSED REVISED CONTRACT AMOUNT TO DATE (1+4)	=	\$183,047,667.08	1,646

We hereby agree to make the above change subject to the terms of this change order for the sum of: \_\_\_\_\_  
 -----One Hundred Five Thousand Four Hundred Ninety-Two and 90/100 -----Dollars

Filanc/Balfour-Beatty

Date

Contractor

By: Glenn Schwenger, Project Manager

SIGNATURE	DATE	APPROVAL LEVEL REQUIRED
_____	_____	Department Director Approval Required <input type="checkbox"/>
IRWD Engineer or Consulting Engineer	Date	Executive Director Approval Required <input type="checkbox"/>
_____	_____	General Manager Approval Required <input type="checkbox"/>
Principal Engineer	Date	Board Approval Required <input checked="" type="checkbox"/>
_____	_____	
Executive Director of Engineering & Water Quality	Date	
_____	_____	
General Manager	Date	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.

MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary

EXHIBIT "B"

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
1	Approved by Exe. Director of Engineering and Water Quality Approved on October 24, 2013 1.1 Modifications to Road to Development Area - Delete AC to Triangle, add AB to Michelson (CR-004)	A	IRWD	\$ 20,202.42	\$20,202.42	\$0.00	\$20,202.42	0.01%	\$163,486,142.42	0	0	0	1,278	10/28/2016
2	Approved by Exe. Director of Engineering and Water Quality Approved on November 13, 2013 2.1 Street Light Conduit Modifications (CR-007)	B	IRWD	\$ 12,475.08	\$12,475.08	\$20,202.42	\$32,677.50	0.02%	\$163,498,617.50	0	0	0	1,278	10/28/2016
3	Approved by Board of Directors Approved on March 10, 2014 3.1 Bid Quantity Adjustment of Bid Item 8.6 Pre-Drill	B	FBB	\$ 745,503.00	\$745,503.00	\$32,677.50	\$778,180.50	0.48%	\$164,244,120.50	0	0	0	1,278	10/28/2016
4	Approved by Exe Dir of Eng & Water Quality Approved on March 14, 2014 4.1 Installation of Five Additional Groundwater Wells and Monitoring - (CR-006) PR 21146 (4286) Task 3505 4.2 Brace Bay Modifications at the FOG Station - (CR-015) PR 21146 (4286) Task 3505 4.3 Grounding Extension at Nitrogen and Mineral Oil System (CR-025) PR 21146 (4286) Task 3510	A	IRWD	\$11,047.81	\$23,029.22	\$778,180.50	\$801,209.72	0.49%	\$164,267,149.72	0	0	0	1,278	10/28/2016
5	Approved by Exe Dir of Eng & Water Quality Approved on March 14, 2014 5.1 Unidentified Utility - Meter Shop Discharge (CR-008) PR 21146 (4286) Task 3505 5.2 Connection Beam Modifications at Solids Handling Facility (CR-014) PR 21146 (4286) Task 3235 5.3 Increased Grating Thickness at Solids Handling Facility (CR-041) PR 21146 (4286) Task 3505	B	IRWD	\$15,225.75	\$24,851.73	\$801,209.72	\$826,061.45	0.51%	\$164,292,001.45	0	0	0	1,278	10/28/2016
6	Approved by General Manager Approved on March 20, 2014 6.1 Additional Costs to Install Piles to the Design Tip (CR-033) PR 21146 (4286) Task 3505	B	FBB	\$31,815.00	\$31,815.00	\$826,061.45	\$857,876.45	0.52%	\$164,323,816.45	0	0	0	1,278	10/28/2016

A - District Convenience/Initiation - Project Related  
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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
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7	Approved by Exe Dir of Eng & Water Quality Approved on April 21, 2014				\$24,725.00	\$857,876.45	\$882,601.45	0.54%	\$164,348,541.45	0	0	0	1,278	10/28/2016
7.1	Meter Shop Discharge Pipe Leak Investigation and Repair (CR-013) PR 21146 (4286) Task 3505	B	IRWD	\$2,542.00						0				
7.2	Additional Reinforcement and Lifting Eyes for Removable Slabs at Solids Handling Building (CR-021) PR 21146 (4286) Task 3505	C	FBB	\$14,059.00						0				
7.3	Increased Grating Thickness at Solids Handling Facility (CR-041) PR 21146 (4286) Task 3505 Additional Conductance Probe Materials for Relay Level Switches for Various Sumps Located at the Microturbine Area PR 21146 (4286) Task 3510	C	FBB	\$8,124.00						0				
8	Approved by General Manager Approved on April 21, 2014				(\$49,990.00)	\$882,601.45	\$832,611.45	0.51%	\$164,298,551.45	0	0	0	1,278	10/28/2016
8.1	Cost Sharing for Project Partnering (CR-Credit for Primavera 7.0 Project Portfolio Management Software (CR-002) PR 21146 (4286) Task 3235	A	IRWD	(\$14,611.00)						0				
8.2	21146 (4286) Task 3235	A	IRWD	(\$2,700.00)						0				
8.3	Deletion of Concrete Pad near Development Area (CR-004A) PR 21146 (4286) Task 3235	A	IRWD	(\$3,865.00)						0				
8.4	Deletion of Ground Test Device (CR-034) PR 21146 (4286) Task 3210	A	IRWD	(\$15,579.00)						0				
8.5	Deletion of Existing T-4 Switchgear Level Indicating Switch (CR-035) PR 21146 (4286) Task 3210	A	IRWD	(\$9,167.00)						0				
8.6	Change to NEMA 4X Panels and Modification to NEMA 4X Bar Graph Display (CR-046) PR 21146 (4286) Task 3210	A	IRWD	(\$4,068.00)						0				
9	Approved by Exe. Director of Eng. & Water Quality Approved on May 31, 2014				\$24,840.17	\$832,611.45	\$857,451.62	0.52%	\$164,323,391.62	0	0	0	1,278	10/28/2016
9.1	Additional Circuits for Gas Monitors and Re-route of Conduits in Solids Handling Facility (CR-028) PR 21146 (4286) Task 3510	C	FBB	\$1,187.49						0				
9.2	Cantilevered Beam Support Modifications in the Solids Handling Facility (CR-049) PR 21146 (4286) Task 3505	C	FBB	\$4,605.30						0				
9.3	Additional Ethernet Switches (CR-062) PR 21146 (4286) Task 3510	C	IRWD	\$19,047.38						0				
10	Approved by Exe. Director of Eng. & Water Quality Approved on May 31, 2014				\$21,398.99	\$857,451.62	\$878,850.61	0.54%	\$164,344,790.61	0	0	0	1,278	10/28/2016
10.1	Additional Grace Ports for Various PLCs (CR-030) PR 21146 (4286) Task 3510	C	IRWD	\$8,580.62						0				
10.2	Provide H-20 Rated Hatches at WAS Pump Station and Valve Vault (CR-061) PR 21146 (4286) Task 3505	C	IRWD	\$12,818.37						0				

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B - 2

**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
11	Approved by Exe. Director of Eng. & Water Quality Approved on June 4, 2014				\$24,739.76	\$878,850.61	\$903,590.37	0.55%	\$164,369,530.37	#REF!	0	#REF!	#REF!	10/28/2016
11.1	Waste Activated Sludge (WAS) Pump Station Structural Modifications (CR-023) PR 21146 (4286) Task 3505	C	IRWD	\$12,905.49						0				
11.2	Removable Slab Modifications on the Second Floor of Solids Handling Building (CR-064) PR 21146 (4286) Task 3505	C	IRWD	\$11,834.27						0				
12	Approved by Board of Directors Approved on July 21, 2014				\$156,580.22	\$903,590.37	\$1,060,170.59	0.65%	\$164,526,110.59	0	0	0	1,278	10/28/2016
12.1	Final Bid Quantity Adjustment for Bid Item No. 5.2 - Undocumented Fill (suitable) - Remedial Grading - Remove and Re-compact a net increase of 8,104.7 CY from 51,700 CY to 59,804.7 CY at \$5/CY. PR 21146 (4286) Task 3505	B	N/A	\$40,523.37						0				
12.2	Final Bid Quantity Adjustment for Bid Item No. 5.5 - Undocumented Fill (not suitable) - Remedial Grading - Remove and Export Offsite, a net increase of 60 CY, from 1,800 CY to 1,860 CY at \$25 /CY. PR 21146 (4286) Task 3505	B	N/A	\$1,500.00						0				
12.3	Final Bid Quantity Adjustment for Bid Item No. 5.6 - Geotextile Fabric - Remedial Grading, a net decrease of 5,414 SF, from 181,500 SF to 176,086 SF at \$0.40/SF. PR 21146 (4286) Task 3505	B	N/A	(\$2,165.60)						0				
12.4	Final Bid Quantity Adjustment for Bid Item No. 5.6 - Geotextile Fabric - Remedial Grading, a net decrease of 5,414 SF, from 181,500 SF to 176,086 SF at \$0.40/SF. PR 21146 (4286) Task 3505	B	N/A	(\$6,523.33)						0				
12.5	Final Bid Quantity Adjustment for Bid Item No. 5.8 - Undocumented Fill - Deep Foundations - Removal, a net increase of 966 CY, from 21,650 CY to 22,616 CY at \$5.50/CY. PR 21146 (4286) Task 3505	B	N/A	\$5,313.00						0				
12.6	Final Bid Quantity Adjustment for Bid Item No. 5.9 - Alluvium - Remedial Grading - Removal and Export Offsite, a net increase of 2,076 CY, from 28,154 CY to 30,230 CY at \$35/CY. PR 21146 (4286) Task 3505	B	N/A	\$72,665.98						0				
12.7	Final Bid Quantity Adjustment for Bid Item No. 5.10 - Undocumented Fill Deep Foundations - Compaction of stockpiled materials, a net increase of 3,117 CY, from 11,400 CY to 14,517 CY at \$15/CY. PR 21146 (4286) Task 3505	B	N/A	\$46,755.00						0				
12.8	Final Bid Quantity Adjustment for Bid Item No. 5.11 - Undocumented Fill - Deep Foundations - Export excess offsite a net decrease of 2,151 CY, from 10,250 CY to 8,099 CY PR 21146 (4286) Task 3505	B	N/A	(\$30,114.00)						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
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12.9	Final Bid Quantity Adjustment for Bid Item No. 5.12 - Geotextile Fabric - Deep Foundations, a net increase of 9,218 SF, from 51,500 SF to 60,718 SF at \$0.60/SF. PR 21146 (4286) Task 3505	B	N/A	\$5,530.80						0				
12.10	Final Bid Quantity Adjustment for Bid Item No. 5.13 - Aggregate Base - Deep Foundations, a net increase of 513.2 CY, from 2,860 CY to 3,373.2CY at \$45/CY. PR 21146 (4286) Task 3505	B	N/A	\$23,095.00						0				
13	Approved by Exe. Director of Engineering & Water Quality Approved on July 10, 2014				\$10,129.18	\$1,060,170.59	\$1,070,299.77	0.65%	\$164,536,239.77	0	0	0	1,278	10/28/2016
13.1	Modifications to Switchgear 16 (CR-070) PR 21146 (4286) Task 3510	A	FBB	\$10,129.18						0				
14	Approved by General Manager Approved on June 24, 2014				\$44,543.19	\$1,070,299.77	\$1,114,842.96	0.68%	\$164,580,782.96	0	0	0	1,278	10/28/2016
14.1	Slide Gates Clarification Regarding Actuators (CR-039) PR 21146 (4286) Task 3520	A	IRWD	\$44,543.19						0				
15	Approved by General Manager Approval on July 31, 2014				\$45,214.40	\$1,114,842.96	\$1,160,057.36	0.71%	\$164,625,997.36	0	0	0	1,278	10/28/2016
15.1	Provide Masonry Shelf Angle at Digester Control Building (CR-031) PR 21146 (4286) Task 3505	C	FBB	\$27,543.19						0				
15.2	Beam Size Increase for Monorail Runway in Solids Handling Building - (CR-074) PR 21146 (4286) Task 3505	C	FBB	\$1,200.47						0				
15.3	Upsize Odor Control Circulation Pump Motor Disconnects (CR-082) PR 21146 (4286) Task 3510	B	FBB	\$1,184.83						0				
15.4	Additional Deck Support for the Solids Handling Building Roof (CR-044) PR 21146 (4286) Task 3505	C	FBB	\$15,285.91						0				
16	Approved by E&O Committee Approved on August 19, 2014				\$62,037.10	\$1,160,057.36	\$1,222,094.46	0.75%	\$164,688,034.46	0	0	0	1,278	10/28/2016
16.1	Installation of Level 3 Diesel Particulate Filter (DPF) on the Standby Generator - (CR-073) PR 21146 (4286) Task 3520	B	IRWD	\$62,037.10						0				
17	Approved by Board of Directors Approved on August 25, 2014				(\$106,241.99)	\$1,222,094.46	\$1,115,852.47	0.68%	\$164,581,792.47	0	0	0	1,278	10/28/2016
17.1	Modifications to Switchgear 16 (CR-070A) PR 21146 (4286) Task 3510	A	FBB	(\$106,241.99)						0				
18	Approved by Board of Directors Approved on August 25, 2014				\$108,087.55	\$1,115,852.47	\$1,223,940.02	0.75%	\$164,689,880.02	0	0	0	1,278	10/28/2016
18.1	Stormwater Drainage System Modification (CR-017) PR 21146 (4286)	A	IRWD	\$108,087.55						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

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19	Approved by Executive Director of Engineering & Water Quality Approved on September 30, 2014				\$72,572.86	\$1,223,940.02	\$1,296,512.88	0.79%	\$164,762,452.88	0	0	0	1,278	10/28/2016
19.1	Modification to Switchgear 16 (CR-070B) PR 21146 (4286) Task 3510	A	IRWD	\$1,125.75						0				
19.2	Alluvium Removal Due to 36-inch Storm Drain Installation (CR-085) PR 21146 (4286) Task 3520	B	N/A	\$14,140.00						0				
19.3	Additional Structural Support for Fats, Oils, and Grease (FOG) Grinders (CR-081) PR 21146 (4286) Task 3505	C	FBB	\$8,323.99						0				
19.4	Portable Lift Truck for 480V ABB Breakers (CR-108) PR 21146 (4286) Task 3510	A	IRWD	\$2,625.12						0				
19.5	Retaining Wall North and West of Biosolids Site (CR-010) PR 21146 (4286) Task 3505	B	IRWD	\$46,358.00						0				
20	Approved by Executive Director of Engineering & Water Quality Approved on November 19, 2014				\$54,485.63	\$1,296,512.88	\$1,350,998.51	0.83%	\$164,816,938.51	0	0	0	1,278	10/28/2016
20.1	Nitrogen Slab Modifications (CR-052) PR 21146 (4286) Task 3505	A	IRWD	\$24,855.80						0				
20.2	Additional Conduits and Circuits for the Access Control Systems for the Solids Handling Building and the Digester Control Building (CR-082) PR 21146	A	IRWD	\$3,412.13						0				
20.3	Digital Power Meters Change for SWGR-14 and SWGR-15 (CR-109) PR 21146 (4286) Task 3510	A	IRWD	\$3,863.22						0				
20.4	Truck Unloading Panel Modifications (CR-115) PR 21146 (4286) Task 3510	A	IRWD	\$12,843.50						0				
20.5	Switchgear SWGR-14 Modifications (CR-116) PR 21146 (4286) Task 3510	A	IRWD	\$9,510.98						0				
21	Approved by General Manager Approved on January 30, 2015				\$ 98,506.19	\$1,350,998.51	\$1,449,504.70	0.89%	\$164,915,444.70	0	0	0	1,278	10/28/2016
21.1	Additional Anchorage for Methane Digesters (CR-051A) PR 21146 (4286) Task 3520	B	FBB	\$92,367.44						0				
21.2	Additional Input/Outputs Review of Master I/O List (CR-136) PR 21146 (4286) Task 3510	C	FBB	\$6,138.75						0				

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**B - 5**

**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

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22	Approved by Board of Directors Approved on February 9, 2015				\$964,324.51	\$1,449,504.70	\$2,413,829.21	1.48%	\$165,879,769.21	0	0	0	1,278	10/28/2016
22.1	Electrical Conduit Overfill (CR-055) PR 21146 (4286) Task 3510	C	FBB	\$485,250.28						0				
22.2	Heat Dryer Equipment Escalation Costs (CR-057) PR 21146 (4286) Task 3520	B	FBB	\$333,477.50						0				
22.3	Glass-lining Sludge Density Meters (CR-067) PR 21146 (4286) Task 3510	A	IRWD	\$71,010.74						0				
22.4	Switchgear-16 Enclosure (CR-040) PR 21146 (4286) Task 3510	C	FBB	\$56,882.30						0				
22.5	Propane Gas Tank Foundation Demolition (CR-084) PR 21146 (4286) Task 3505	C	IRWD	\$2,004.98						0				
22.6	Credit for travel costs related to inspection of centrifuges in Germany (CR-091) PR 21146 (4286) Task 3520	A	IRWD	(\$5,573.42)						0				
22.7	Deletion of MMC Switchgear-14 Breaker (CR-092) PR 21146 (4286) Task 3510	A	IRWD	(\$5,032.00)						0				
22.8	Increase of Fiber Optic Conduit Size (CR-097) PR 21146 (4286) Task 3510	C	IRWD	\$23,269.61						0				
22.9	Overtime to perform work in the Solids Handling electrical room (CR-103) PR 21146 (4286) Task 3510	A	IRWD	\$1,384.47						0				
22.10	Credit for modification to the Uninterruptible Power System (CR-118) PR 21146 (4286) Task 3510	A	IRWD	(\$9,771.72)						0				
22.11	Addition of Low Voltage Compartment in SCE Switch "C" (CR-160) PR 21146 (4286) Task 3510	A	IRWD	\$2,156.20						0				
22.12	Addition of input/output points relating to sump pumps located at the Solids Handling Building (CR-161) PR 21146 (4286) Task 3510	A	FBB	\$9,265.57						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

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23	Approved by General Manager Approved on February 26, 2015				\$97,005.10	\$2,413,829.21	\$2,510,834.31	1.54%	\$165,976,774.31	0	0	0	1,278	10/28/2016
23.1	Additional Steel Reinforcement the Pellet Storage Silos Anchor Bolts (CR-094) PR 21146 (4286) Task 3505	B	FBB	\$5,514.57						0				
23.2	Differential Pressure Transmitter (CR-094) PR 21146 (4286) Task 3510	A	IRWD	\$2,535.33						0				
23.3	Additional Aluminum Trench Grating in Digester Control Building (CR-107) PR 21146 (4286) Task 3520	A	IRWD	\$7,552.11						0				
23.4	Light Weight Concrete for Electrical Conduits Underneath the Solids Handling Building Electrical Room (CR-113) PR 21146 (4286) Task 3510	A	IRWD	\$30,535.94						0				
23.5	Adding Energysjets Weir Plates to Dewatering Centrifuges – (CR-124) PR 21146 (4286) Task 3520	A	IRWD	\$11,139.25						0				
23.6	Provide Angle Supports for the Removable Slabs at the Solids Handling Building – (CR-137) PR 21146 (4286) Task 3520	A	IRWD	\$20,671.61						0				
23.7	Structural Modification at Solids Handling Building – (CR-140) PR 21146 (4286) Task 3520	C	FBB	\$1,109.42						0				
23.8	Increase of Fiber Optic Conduit Size (CR-097) PR 21146 (4286) Task 3510	A	IRWD	\$5,516.45						0				
23.9	Steel Joist Framing Modifications at Digester Control Building (CR-151) PR 21146 (4286) Task 3505	C	FBB	\$2,286.29						0				
23.10	WAS Valve Vault and Piping Modifications (CR-100) PR 21146 (4286) Task 3520	A	IRWD	\$10,144.13						0				
24	Approved by General Manager Approved on March 6, 2015				\$99,122.95	\$2,510,834.31	\$2,609,957.26	1.60%	\$166,075,897.26	0	0	0	1,278	10/28/2016
24.1	Coating of WAS/Primary Sludge Pump Stations & Sludge Wetwells per RFI-0612A (CR-127) PR 21146 (4286) Task 3505	A	FBB	\$99,122.95						0				
25	Approved by Board of Directors Approved on March 23, 2015				\$280,575.97	\$2,609,957.26	\$2,890,533.23	1.77%	\$166,356,473.23	0	0	0	1,278	10/28/2016
25.1	Lightning Protection for the Methane Digesters (CR-121) PR 21146 (4286) Task 3505	C	FBB	\$158,259.68						0				
25.2	Deflagration Quench Tubes outside of the Dryer Room (CR-143) PR 21146 (4286) Task 3505	B	FBB	\$122,316.29						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
26	Approved by Exe. Dir. Of Engineering & Water Quality Approved on April 14, 2015				\$74,815.79	\$2,890,533.23	\$2,965,349.02	1.81%	\$166,431,289.02	0	0	0	1,278	10/28/2016
26.1	UPS and Power Fail Alarms per RFI 357 (CR-056) PR 21146 (4286) Task 3510	C	FBB	\$3,646.82						0				
26.2	I/O Points for Methane Digester Sump Pumps per RFI-356 (CR-077) PR 21146 (4286) Task 3510	C	FBB	\$6,489.00						0				
26.3	Loss of Power Alarms to the SCADA Network per RFI-0393B (CR-093) PR	A	FBB	\$20,297.16						0				
26.4	FOG Flushing and Rock Trap Modifications per RFI-0534 (CR-101) PR 21146	A	IRWD	\$18,093.61						0				
26.5	Install Grounding Pig Tails in Solids Handling Building Area Electrical Room per RFI 0594 (CR-105) PR 21146 (4286) Task 3510	A	IRWD	\$1,593.10						0				
26.6	Additional Pushbuttons, Light and Relays for the FOG Receiving Control Panel (CR-114) PR 21146 (4286) Task 3510	A	IRWD	\$6,892.40						0				
26.7	Changes to the HMI Enclosures at the Sludge Receiving Area (CR-133) PR 21146 (4286) Task 3510	A	IRWD	\$7,114.17						0				
26.8	Provide Storage Shelf for Keyboard and Mouse to the HMI Enclosures at the Sludge Receiving Area (CR-135) PR 21146 (4286) Task 3510	A	IRWD	\$1,163.26						0				
26.9	Dewatering Feed Pump Station Guardrail Additions (CR-142) PR 21146 (4286) Task 3520	C	FBB	\$4,204.00						0				
26.10	Additional I/O Points for PLC-4300 (CR-156) PR 21146 (4286) Task 3510	C	FBB	\$3,035.28						0				
26.11	Shoring Revision to Roof Slab of Dewatering Feed Pump Station (CR-189) PR 21146 (4286) Task 3510	B	FBB	\$1,286.99						0				
26.12	Coating of the Sludge Receiving Bins (CR-199) PR 21146 (4286) Task 3520	A	FBB	\$1,000.00						0				
27	Approved by Board of Directors Approved on April 27, 2015				\$107,253.26	\$2,965,349.02	\$3,072,602.28	1.88%	\$166,538,542.28	0	0	0	1,278	10/28/2016
27.1	Modifications to Human-Machine Interface (HMI) for the Microturbine Area (CR-078) PR 21146 (4286) Task 3510	A	IRWD	\$29,744.43						0				
27.2	Modifications to the Piping and Automation Features at Fats, Oils, and Grease (FOG) Facility (CR-129) PR 21146 (4286) Task 3510	A	IRWD	\$35,771.81						0				
27.3	Structural Support to the Monorail at the Dewatering Feed Pump Station (CR-152) PR 21146 (4286) Task 3505	C	FBB	\$13,697.51						0				
27.4	Two Additional Magnetic Flowmeters at Polymer Feed System (CR-158) PR 21146 (4286) Task 3510	A	IRWD	\$9,522.81						0				
27.5	Modifications to PLCs at Sludge Receiving Area (CR-180) PR 21146 (4286) Task 3510	A	IRWD	\$18,516.70						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
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28	Approved by Exe. Dir. Of Eng. & Water Quality Approved on May 15, 2015				\$74,550.35	\$3,072,602.28	\$3,147,152.63	1.93%	\$166,613,092.63	0	0	0	1,278	10/28/2016
28.1	Decanter Control Panel Modifications (CR-215) Task 3520	C	FBB	\$22,451.01						0				
28.2	Additional Structural Support in the Solids Handling Building (CR-075) Task 3505	C	FBB	\$12,028.44						0				
28.3	Additional Sump Pump Drain Line in the Bulk Polymer Storage Area (CR-119) Task 3520	C	FBB	\$1,433.86						0				
28.4	Install Three 5-inch conduits on Southwest Side of the Biosolids Site (CR-120) Task 3510	C	FBB	\$16,033.58						0				
28.5	Provide Power to Several Instruments Located at the Solids Handling Building and Digester Control Building (CR-154) Task 3520	C	FBB	\$3,454.91						0				
28.6	Install Foam Separator Drain at Digester Control Building (CR-167) Task 3520	C	FBB	\$11,013.75						0				
28.7	Install Support for 14-inch Plug Valve at Centrate Treatment Wetwell (CR-197) Task 3520	C	FBB	\$1,715.20						0				
28.8	Trench Modifications at the Sludge Cake Load-Out Area of the Solids Handling Building (CR-123) Task 3505	C	FBB	\$6,419.60						0				
29	Approved by Board of Directors Approved on June 22, 2015				\$225,971.77	\$3,147,152.63	\$3,373,124.40	2.06%	\$166,839,064.40	0	0	0	1,278	10/28/2016
29.1	Foul Air Pipe Supports in the Solids Handling Building Basement (CR-106) PR 21146 (4286) Task 3520	C	FBB	\$119,937.87						0				
29.2	Secondary Circuit Breaker for Transformer T-14 (CR-185) PR 21146 (4286) Task 3510	A	IRWD	\$106,033.90						0				

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30	Approved by Board of Directors Approved on July 27, 2015				(\$47,976.59)	\$3,373,124.40	\$3,325,147.81	2.03%	\$166,791,087.81	0	0	0	1,278	10/28/2016
30.1	Credit for Changing Storm Drain line from Ductile Iron to PVC (CR-042) PR 21146 (4286) Task 3520	A	IRWD	(\$1,890.92)						0				
30.2	Installation of Additional Digester Anchorage (CR-051B) PR21146 (4286) Task 3505	B	FBB	\$118,335.54						0				
30.3	Huber Screens I/O Modifications per RFI-0391 and RFI-0525A (CR-068) PR 21146 (4286) Task 3510	A	IRWD	\$12,579.20						0				
30.4	Credit for FBB's Portion of Partnering (CR-090) PR 21146 (4286) Task Deletion of Waterstops at Methane Digester Complex (CR-102) PR 21146 (4286) Task 3505	E	FBB	(\$81,948.33)						0				
30.5	Deletion of Bid Item No. 18.4 - Computers and Networking Hardware for the Control System (CR-138) PR 21146 (4286) Task 3510	A	IRWD	(\$200,000.00)						0				
30.6	Electrical and Gas Modifications (CR-146) PR 21146 (4286) Task 3510	C	IRWD	\$363,978.41						0				
30.8	Credit for Changing Heat Dryer Wet Material Mixer from A24 Steel to A36 Steel (CR-157) PR 21146 (4286) Task 3520	E	FBB	(\$2,392.66)						0				
30.9	Credit for Travel Cost of On-Site Inspection for Acid Phase Digester (CR-175) PR 21146 (4286) Task 3520	B	IRWD	(\$683.39)						0				
30.1	Heat Dryer I/O Modifications per RFI-0626 (CR-179) PR 21146 (4286) Task 3510	A	IRWD	\$11,191.41						0				
30.11	Decant Trough I/O Modifications per RFI-0979 (CR-202) PR 21146 (4286) Task 3510	A	IRWD	\$9,960.55						0				
30.12	Deletion of Interior Coating of Methane Digesters (CR-188) PR 21146 (4286) Task 3520	A	IRWD	(\$398,571.00)						0				
30.13	Piping Modifications and Addition of Carbon Canisters (CR-218) PR 21146 (4286) Task 3520	A	IRWD	\$88,076.01						0				
30.14	Pickling and Passivation of Sludge Mixers (CR-248) PR 21146 (4286) Task 3520	C	IRWD	\$73,997.23						0				
30.15	IRWD Costs Associated to Repairing the Pile and Installing Couplers (CR-139) PR 21146 (4286) Task 3505	E	FBB	(\$38,102.85)						0				

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**MWRP Biosolids and Energy Recovery Facilities  
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Design Engineer: Black & Veatch

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31	Approved by Exe. Dir. Of Eng. & Water Quality Approved on July 28, 2015				\$74,999.74	\$3,325,147.81	\$3,400,147.55	2.08%	\$166,866,087.55	0	0	0	1,278	10/28/2016
31.1	Provide Circuit and Breaker for Standby Generator in the Microturbine Area (CR-170) PR 21146 (4286) Task 3510	C	FBB	\$4,296.86						0				
31.2	Additional Pipe Support for 14-inch Air Line at the Centrate Facility (CR-226) PR 21146 (4286) Task 3520	C	FBB	\$893.78						0				
31.3	Addition of E-stops (CR-128) PR 21146 (4286) Task 3510	A	FBB	\$57,916.71						0				
31.4	Structural Support of Jib Crane at Dewatering Feed Pump Station Stairwell (CR-243) PR 21146 (4286) Task 3520	C	FBB	\$11,892.39						0				
32	Approved by Exe. Dir. Of Eng. & Water Quality Approved on August 31, 2015				\$74,682.96	\$3,400,147.55	\$3,474,830.51	2.13%	\$166,940,770.51	0	0	0	1,278	10/28/2016
32.1	Additional Conduits and Circuits for Fire Alarm in the Solids Handling Building (4286) Task 3520	A	IRWD	\$21,637.57						0				
32.2	Additional Davit Bases at Centrate Treatment Facility (CR-111) PR 21146 (4286) Task 3520	A	IRWD	\$1,809.77						0				
32.3	Additional Fire Alarm Panel in Digester Control Building (CR-169) PR 21146 (4286) Task 3510	A	IRWD	\$25,153.79						0				
32.4	Modifications to FOG Sump Pumps Controls (CR-177) PR 21146 (4286) Task 3510	A	IRWD	\$5,690.83						0				
32.5	Additional Truck Load-out Conveyor Input and Output (CR-201) PR 21146 (4286) Task 3510	A	IRWD	\$2,220.12						0				
32.6	Additional Spare Conduits in the Microturbine Area (CR-229) PR 21146 (4286) Task 3510	A	FBB	\$14,602.41						0				
32.7	Conduits for Electrical Disconnect Switch for Roll-Up Doors of the Digester Control Building (CR-230) PR 21146 (4286) Task 3510	A	IRWD	\$3,568.47						0				
33	Approved by Executive Director of Engineering & Water Quality Approved on September 30, 2015				\$58,247.75	\$3,474,830.51	\$3,533,078.26	2.16%	\$166,999,018.26	0	0	0	-	1/0/1900
33.1	Realignment of 8-inch Reclaimed Water Line at Gate 2 (CR-225) PR 21146 (4286) Task 3520	B	FBB	\$24,017.48						0				
33.2	Additional Conduits and Wires for Lighting Circuits to Minimize Voltage Drop (CR-228) PR 21146 (4286) Task 3510	C	IRWD	\$32,399.41						0				
33.3	Cable and Conduit Changes at Solids Handling Building and Dewatering Feed Pump Station (CR-231) PR 21146 (4286) Task 3510	C	IRWD	\$1,830.86						0				

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34	Approved by Board of Directors Approved on October 26, 2015				\$164,775.28	\$3,533,078.26	\$3,697,853.54	2.26%	\$167,163,793.54	0	0	0	1,278	10/28/2016
34.1	Credit for Third Submittal Review Through 05/31/2015 (CR-088) PR 21146 (4286) Task 1065	B	IRWD	(\$39,502.50)						0				
34.2	Credit for Overtime Inspection Hours Through 05/31/2015 (CR-089) PR 21146 (4286) Task 3520	F	FBB	(\$80,850.00)						0				
34.3	Credit for Special Inspections for Structural Anchors and Geotechnical Investigation (CR-295) PR 21146 (4286) Task 1065	A	IRWD	(\$27,500.00)						0				
34.4	Change in Knife Gate Valve Manufacturer (CR-187) PR 21146 (4286) Task 3520	E	FBB	\$275,954.90						0				
34.5	Credit for Changes in Low Voltage SWGR-14 Circuit Breaker (CR-163) PR 21146 (4286) Task 3510	A	IRWD	(\$1,978.00)						0				
34.6	Change to Addressable Smoke Detectors (CR-220) PR 21146 (4286) Task 3510	B	IRWD	\$38,650.88						0				
35	Approved by General Manager Approved on November 25, 2015				\$97,980.57	\$3,697,853.54	\$3,795,834.11	2.32%	\$167,261,774.11	0	0	0	1,278	10/28/2016
35.1	Change in Naming Convention for Storm Water Pump Station (Area 1500) SCADA Programming (CR-181) PR 21146 (4286) Task 3510	E	FBB	\$9,027.03						0				
35.2	Valve Status Override Functionality (CR-182) PR 21146 (4286) Task 3510	E	FBB	\$38,999.08						0				
35.3	Control Changes for Primary Sludge and Waste Activated Pump Stations (Area 1900) SCADA Programming (CR-184) PR 21146 (4286) Task 3510	A	IRWD	\$36,772.78						0				
35.4	Motor Protection Relay (CR-239) PR 21146 (4286) Task 3510	A	IRWD	\$13,181.68						0				
36	Approved by General Manager Approved on December 3, 2015				\$86,007.50	\$3,795,834.11	\$3,881,841.61	2.37%	\$167,347,781.61	0	0	0	1,278	10/28/2016
36.1	Light Weight Concrete for Underslab Conduits at Microturbine Area (CR-253) PR 21146 (4286) Task 3510	A	FBB	\$21,117.50						0				
36.2	Outstanding CB&I Items (CR-099A) PR 21146 (4286) Task 3520 – This change order includes: CR-098 (Guard Rail at Biogas Storage Tank); CR-099 (Tube Steel Supports); additional Off-Site Storage Costs; and credit for Use of SS 308 in Lieu of SS 316L Welds.	B	FBB	\$64,890.00						0				

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37	Approved by Exe. Director of Engineering and Water Quality Approved on January 21, 2016				\$47,446.49	\$3,881,841.61	\$3,929,288.10	2.40%	\$167,395,228.10	0	0	0	1,278	10/28/2016
37.1	Additional Pressure Relief Valves in the Digester Control Building Slab (CR-112) PR 21146 (4286) Task 3520	C	IRWD	\$1,065.72						0				
37.2	Change Feeder Circuit Breaker Size in MCC-4102 (CR-165) PR 21146 (4286) Task 3510	C	IRWD	\$4,157.60						0				
37.3	Change Feeder Circuit Breaker Size for the Primary Sludge Pump Variable Frequency Drive (CR-233) PR 21146 (4286) Task 3510	C	IRWD	\$2,430.59						0				
37.4	SCADA Programming Changes Due to Change to Schweitzer Power Quality	A	FBB	\$16,814.00						0				
37.5	Additional Labeling of Parallel Conduits and Cables (CR-262) PR 21146 (4286) Task 3510	A	IRWD	\$8,410.00						0				
37.6	Change in Sludge Receiving Entrance Beacon Operation CR-263) PR 21146 (4286) Task 3510	A	IRWD	\$5,382.19						0				
37.7	Anodize Aluminum Light Fixture Stanchions/Sun Shades (CR-283) PR 21146 (4286) Task 3510	A	IRWD	\$5,911.61						0				
37.8	Hot Tap 8-Inch ACP Potable Water Line (CR-311) PR 21146 (4286) Task 3520	A	FBB	\$3,274.78						0				

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38	Approved by General Manager Approved on February 29, 2016				\$83,345.07	\$3,929,288.10	\$4,012,633.17	2.45%	\$167,478,573.17	0	0	0	1,278	10/28/2016
38.1	Software Control Block Revision for Area 4300 – Dewatering (CR-211) PR 4286 Task 3510	C	FBB	\$18,908.76						0				
38.2	Revised Master List of SCADA Templates (CR-247) PR 4286 Task 3510	C	FBB	\$47,274.54						0				
38.3	Additional Overflow Alarms at Sludge Holding Tanks (CR-280) PR 4286 Task 3510	A	IRWD	\$9,654.54						0				
38.4	Leak Detection at Sulfuric Acid Facility (CR-290) PR 21146 (4286) Task 3510	A	IRWD	\$5,499.97						0				
38.5	Insulation for Acid Phase Gas Piping (CR-218A) PR 21146 (4286) Task 3520	A	IRWD	\$2,007.26						0				
39	Approved by General Manager Approved on March 7, 2016				\$98,006.46	\$4,012,633.17	\$4,110,639.63	2.51%	\$167,576,579.63	0	0	0	1,278	10/28/2016
39.1	SCE Installation - Final Accounting of Work Items Between Negotiated Change Order and Actual Work (CR-146E) PR 4286 Task 3510	B	FBB	\$7,809.51						0				
39.2	Installation of Southern California Gas (SCG) Boxes (CR-146F) PR 4286 Task 3510	A	FBB	\$3,479.81						0				
39.3	Schweitzer SEL-735 Power Monitors for Centrifuge Panels (CR-207) PR 4286 Task 3510	A	IRWD	\$34,274.40						0				
39.4	Hirschmann Ethernet Switches for Centrifuge Panels (CR-208) PR 4286 Task 3510	A	IRWD	\$9,569.15						0				
39.5	Addition of Sample Pump Variable Frequency Drives for Thickening Centrifuges (CR-237) PR 4286 Task 3520	E	IRWD	\$24,496.55						0				
39.6	Upgrade of Exit Signs and Ceiling Lights in the Gas Room of the Digester Control Building to NEC Class 1 Division 1 (CR-313) PR 4286 Task 352	A	IRWD	\$18,377.04						0				
40	Approved by General Manager Approved on April 20, 2016				\$97,287.05	\$4,110,639.63	\$4,207,926.68	2.57%	\$167,673,866.68	0	0	0	1,278	10/28/2016
40.1	Brace Plates in Solids Handling Building (CR-069) PR 4286 Task 3505	C	FBB	\$40,216.76						0				
40.2	Relocation of RIO-50 Panel (CR-186) PR 4286 Task 3510	B	FBB	\$4,818.64						0				
40.3	Addition of Two Doors at the bases of the stairways at Methane Digesters Nos. 1 and No. 2 (CR-232) PR 4286 Task 3505	C	FBB	\$52,251.65						0				

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41	Approved By Board of Directors Approved on May 23, 2016				\$1,103,650.56	\$4,207,926.68	\$5,311,577.24	3.25%	\$168,777,517.24	0	0	0	1,278	10/28/2016
41.1	Additional SCE and SCG Modifications (CR-146A) PR 4286 Task 3510	B	FBB	\$51,238.69						0				
41.2	Additional Potholing Due to SCE and SCG Realignment (CR-146B) PR 4286 Task 3510	B	FBB	\$36,706.57						0				
41.3	Additional Cameras at the Unloading/Loading Area of the Solids Handling Facility (CR-164) PR 4286 Task 3505	A	IRWD	\$61,731.96						0				
41.4	Fire Sprinkler System Modifications – Mechanical (CR-174) PR 4286 Task 3520	B	IRWD	\$154,592.08						0				
41.5	Fire Sprinkler System Modifications – Electrical (CR-166) PR 4286 Task 3510	B	IRWD	\$13,730.06						0				
41.6	Fiber Optic System Modifications (CR-172/CR-306/CR-314) PR 4286 Task 3510	A	IRWD	\$178,879.46						0				
41.7	T-15, T-16, and T-17 Secondary Breakers (CR-185A, CR-185B, and CR-185C) PR 4286 Task 3510	A	IRWD	\$254,941.66						0				
41.8	Cable and Conduit Changes at the Sludge Receiving Area of the Solids Handling Building (CR-203) PR 4286 Task 3510	C	FBB	\$14,338.94						0				
41.9	Concrete Surface Treatment (CR-222) PR 4286 Task 3505	A	IRWD	\$68,714.34						0				
41.1	Heating Water Boiler Control Modifications (CR-246) PR 4286 Task 3510	A	IRWD	\$71,379.00						0				
41.11	SCADA Control Modifications for the Acid Phase Digesters, Methane Digesters, and Sludge Holding Tank (CR-252) PR 4286 Task 3510	A	IRWD	\$50,540.23						0				
41.12	Ambient Gas Analyzer Wiring Modification (CR-264) PR 4286 Task 3510	B	IRWD	\$19,734.51						0				
41.13	Disconnect Switches for Flow Valves in the Solids Handling Building (CR-272) PR 4286 Task 3510	C	IRWD	\$25,550.26						0				
41.14	Centrifuge Pedestal Modifications (CR-301) PR 4286 Task 3505	C	IRWD	\$30,603.14						0				
41.15	SCADA, Instrumentation, and Electrical Modifications (CR-287, CR-294, and CR-322) PR 4286 Task 3510	A	IRWD	\$70,969.66						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
42	Approved By Board of Directors Approved on May 23, 2016				(\$199,771.09)	\$5,311,577.24	\$5,111,806.15	3.13%	\$168,577,746.15	0	0	0	1,278	10/28/2016
42.1	Value Engineering of Chemical Pump Systems (CR-054) PR 4286 Task 3520	E	FBB	(\$48,549.90)						0				
42.2	Change in Lightning Protection Installation for Egg-Shaped Digesters (CR-121A) PR 4286 Task 3510	E	FBB	(\$97,141.74)						0				
42.3	Deletion of Seal Water Stations and Seal Water Piping (CR-214) PR 4286 Task 3520	A	IRWD	(\$10,557.28)						0				
42.4	Deletion of Low Pressure Switches for Centrate Pumps (CR-257) PR 4286 Task 3510	A	IRWD	(\$1,748.17)						0				
42.5	Centrifuge Seismic Restraint Design Costs (CR-345) PR 4286 Task 1065	A	IRWD	(\$24,064.00)						0				
42.6	Credit for Overtime Inspection Hours From 6/1/2015 to Through 12/31/2015 (CR-089B) PR 4286 Task 1065	F	FBB	(\$17,710.00)						0				
43	Approved by Exe. Director of Engineering and Water Quality Approved on May 31, 2016				\$74,731.69	\$5,111,806.15	\$5,186,537.84	3.17%	\$168,652,477.84	0	0	0	1,278	10/28/2016
43.1	Combustible Gas Detection System (CR-234) PR 21146 (4286) Task 3510	E	FBB	\$18,843.39						0				
43.2	Additional Wires and Cables Between MCC-4102 and PLC-4000 (CR-278) PR 21146 (4286) Task 3510	C	FBB	\$1,775.13						0				
43.3	SCADA Programming Modifications (CR-282) PR 21146 (4286) Task 3510	E	FBB	\$49,679.02						0				
43.4	Change of Waste Gas Burner Feeder Circuit Breaker (CR-344) PR 21146 (4286) Task 3510	B	FBB	\$4,434.15						0				
44	Approved by Exe. Director of Engineering and Water Quality Approved on June 29, 2016				\$74,912.99	\$5,186,537.84	\$5,261,450.83	3.22%	\$168,727,390.83	0	0	0	1,278	10/28/2016
44.1	Electrical and Telephonic Modifications for Elevators for Solids Handling Building and Digester Control Building (CR-037A) PR 4286 Task 3510	C	FBB	\$38,882.06						0				
44.2	Odor Control Recirculation Pump Selector Switch SCADA Modifications (CR-343) PR 4286 Task 3510	A	IRWD	\$9,294.71						0				
44.3	SCADA Valve Matrix Tables Animation Clarification for Milestone 1 (CR-353) PR 4286 Task 3510	A	IRWD	\$9,195.86						0				
44.4	PLC Status Object Update (CR-234) PR 4286 Task 3510	B	FBB	\$4,783.14						0				
44.5	Elevator Safety Beam in the Digester Control Building (CR-302) PR 4286 Task 3505	C	FBB	\$3,830.95						0				
44.6	Masonry Changes to the North Retaining Wall (CR-365) PR 4286 Task 3505	B	IRWD	\$8,926.27						0				

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Design Engineer: Black & Veatch

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45	Approved by Board of Directors Approved on July 25, 2016/December 20, 2016 45.1 Recovery Plan PR 4286 Task 3510	B	FBB	\$9,250,000.00	\$9,250,000.00	\$5,261,450.83	\$14,511,450.83	8.88%	\$177,977,390.83	368	0	368	1,646	10/31/2017
46	Approved by General Manager Approved on January 27, 2017				\$94,696.76	\$14,511,450.83	\$14,606,147.59	8.94%	\$178,072,087.59	0	368	368	1,646	10/31/2017
	46.1 Additional Masonry Anchor in the Solids Handling Building (CR-200) PR 4286	C	IRWD	\$1,457.22						0				
	46.2 Additional Auto Dialer (CR-234A) PR 4286 Task 3510	A	IRWD	\$6,081.90						0				
	46.3 Grating and Handrail Modifications at Bulk Polymer Storage Platform (CR-300) PR 4286 Task 3505	A	IRWD	\$5,568.83						0				
	46.4 SCADA IP Address Update (CR-309) PR 4286 Task 3510	A	IRWD	\$1,227.96						0				
	46.5 Masonry Modifications at Solids Handling Building Stairwell (CR-324) PR 4286 Task 3505	C	FBB	\$5,939.45						0				
	46.6 Change in Valve Operator at the Centrate Treatment Facility (CR-329) PR 4286 Task 3520	A	IRWD	\$4,824.29						0				
	46.7 Boot Wash Landing Addition (CR-349) PR 4286 Task 3505	C	FBB	\$1,834.60						0				
	46.8 Updating Valve Analog SCADA Template (CR-354) PR 4286 Task 3510	A	IRWD	\$692.72						0				
	46.9 Additional Light Fixtures and Lamps (CR-355A) PR 4286 Task 3510	A	IRWD	\$8,508.46						0				
	46.10 Addition of Rebate Angle in the FOG Unloading Sump Area (CR-363) PR 4286 Task 3505	A	IRWD	\$763.62						0				
	46.11 MCC-4103 Hot Water Circulation Pump Breakers Change (CR-366) PR 4286 Task 3510	B	IRWD	\$2,316.03						0				
	46.12 MCC-4100/4101 Cake Transfer Pump Breakers Change (CR-370) PR 4286 Task 3510	B	IRWD	\$23,720.61						0				
	46.13 MCC-4102 Breaker Change (CR-374) PR 4286 Task 3510	B	IRWD	\$2,316.03						0				
	46.14 SCADA Programming Modifications During Benchtest No.1 for Areas 1900 and 2000 (CR-376) PR 4286 Task 3510	A	IRWD	\$24,092.32						0				
	46.15 Additional Light Fixture Above Door in Digester Control Building Gas Room (CR-399) PR 4286 Task 3510	A	IRWD	\$1,478.19						0				
	46.16 Change in Size of Disconnect Switches for Digested Sludge Mixers (CR-408) PR 4286 Task 3510	B	FBB	\$1,290.10						0				
	46.17 Additional Thickening Feed Grinder Control Panel Circuits (CR-438) PR 4286 Task 3510	B	IRWD	\$1,286.63						0				
	46.18 Thickness and Glazing Change for Windows (CR-438) PR 4286 Task 3510	C	IRWD	\$1,297.80						0				

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PR 21146 (4286)  
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Design Engineer: Black & Veatch

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
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47	Approved by General Manager Approved on February 28, 2017				\$96,414.36	\$14,606,147.59	\$14,702,561.95	8.99%	\$178,168,501.95	0	368	368	1,646	10/31/2017
47.1	Relocation of Neutralization Tank Drainage Piping PR 4286 Task 3520	B	FBB	\$2,312.08						0				
47.2	Modifications to Digester Control Building Door and Piping Due to Heating Water Expansion Tank Pad Adjustment (CR-221) PR 4286 Task 3505	C	FBB	\$5,500.74						0				
47.3	PLC-3100 Changes (CR-284) PR 4286 Task 3510	C	FBB	\$1,070.38						0				
47.4	Additional Angle Support to Acid Phase Digester Bridges (CR-298) PR 4286 Task 3505	C	FBB	\$4,986.21						0				
47.5	Additional Potable Water Gate Valves (CR-332) PR 4286 Task 3520	A	IRWD	\$3,892.44						0				
47.6	T-4 Kirk Key Interlock Installation (CR-335) PR 4286 Task 3510	B	IRWD	\$6,924.69						0				
47.7	Solids Handling Building Dumpster Room Channel Frames Modifications (CR-338) PR 4286 Task 3505	C	FBB	\$5,093.87						0				
47.8	PCS Server Configuration Clarification (CR-352) PR 4286 Task 3510	A	IRWD	\$6,824.35						0				
47.9	Additional Anchorage Support for Ledgers of the Digester Control Building Roof (CR-361) PR 4286 Task 3505	C	FBB	\$13,794.95						0				
47.10	Change of MCC-4103 Hot Water Circulation Pump Breakers (CR-366B) PR 4286 Task 3510	A	IRWD	\$1,336.13						0				
47.11	Centrate Treatment Facility Pull Boxes Duct Bank Settlement (CR-383) PR 4286 Task 3510	B	FBB	\$3,300.13						0				
47.12	Modifications to the MCC-4100/4101/4102/4103 (CR-405) PR 4286 Task 3510	B	FBB	\$7,418.52						0				
47.13	Cake Storage Hopper Modifications (CR-421) PR 4286 Task 3510	C	FBB	\$2,250.67						0				
47.14	Removing Installed Lighting in the Solids Handling Building (CR-427) PR 4286 Task 3510	A	IRWD	\$8,947.37						0				
47.15	Electrical Changes for Generator MPC (CR-430) PR 4286 Task 3510	A	IRWD	\$10,950.14						0				
47.16	Electrical Modifications to MCC-4100 and 4103 (CR-431) PR 4286 Task 3510	A	FBB	\$4,500.00						0				
47.17	Occupancy Sensors in the Solids Handling Building Shower Areas (CR-444) PR 4286 Task 3510	C	FBB	\$1,601.36						0				
47.18	Digester Gas Pre-Treatment In-Slab Conduit Size Change (CR-454) PR 4286 Task 3510	C	FBB	\$5,710.33						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
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48	Approved by Board of Directors Approved on March 13, 2017				\$728,237.74	\$14,702,561.95	\$15,430,799.69	9.44%	\$178,896,739.69	0	368	368	1,646	10/31/2017
48.1	Structural Modifications of the Elevator Shafts (CR-037) PR 4286 Task 3505200) PR 4286 Task 3505	B	FBB	\$58,705.90						0				
48.2	SCADA Programming Update of Polymer Feed and Storage System (CR-148A) PR 4286 Task 3510	A	FBB	\$23,685.14						0				
48.3	Stairs and Platform at SHB Load-Out Area (CR-149) PR 4286 Task 3505	C	FBB	\$39,622.65						0				
48.4	Additional Polymer Dilution Flow Meters and Associated Conduits and Cables (CR-159B) PR 4286 Task 3510	A	IRWD	\$38,978.70						0				
48.5	Miscellaneous Andritz Items (CR-205) PR 4286 Task 3520	A	IRWD	\$41,246.71						0				
48.6	RIO-4001 Changes (CR-286) PR 4286 Task 3510	A	IRWD	\$27,889.74						0				
48.7	RIO-3102 Changes (CR-310) PR 4286 Task 3510	A	IRWD	\$18,280.62						0				
48.8	Mini Power Center - Additional Outlet and Data Locations in the SHB (CR-419) PR 4286 Task 3510	A	IRWD	\$13,261.60						0				
48.9	New Lighting in the SHB First Floor Area (CR-427A) PR 4286 Task 3510	A	IRWD	\$102,503.46						0				
48.10	Additional Conduits and Cables for Thermocouples for Several Pumps (CR-424, CR-424A through CR-424F) PR 4286 Task 3510	B	FBB	\$54,982.68						0				
48.11	Additional Wall Panel Framework at the SHB (CR-445) PR 4286 Task 3505	C	FBB	\$128,000.00						0				
48.12	Changes in Uninterruptible Power Supply Units (CR-162/CR-162A) PR 4286 Task 3510	A	IRWD	\$128,052.94						0				
48.13	Addition of Circuit Breaker at Transformer T-14 (CR-474) PR 4286 Task 3510	A	IRWD	\$53,027.60						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
49	Approved by Board of Directors Approved on March 13, 2017				(\$47,099.20)	\$15,430,799.69	\$15,383,700.49	9.41%	\$178,849,640.49	0	368	368	1,646	10/31/2017
49.1	Related Mechanical Piping Modifications Due to Change in Chemical Pumps in CCO No. 42 (CR-054A) PR 4286 Task 3520	E	FBB	(\$23,897.73)						0				
49.2	Changing the Solids Handling Building Roofing from EPDM to PVC (CR-255) PR 4286 Task 3505	E	FBB	(\$9,000.00)						0				
49.3	Net Reduction of Scope of Work in CR-353 – SCADA Valve Matrix Tables Animation Clarifications (CR-353B/353C) PR 4286 Task 3510	A	IRWD	(\$4,429.09)						0				
49.4	Change in Starters for MCC-4100/4101 Cake Transfer Pump Breakers (CR-370A) PR 4286 Task 3510	A	IRWD	(\$4,047.43)						0				
49.5	Deletion of Insulation for the Solids Handling Building Foundation (CR-393) PR 4286 Task 3505	A	IRWD	(\$5,724.95)						0				
50	Approved by Executive Director of Engineering & Water Quality Approved on March 31, 2017				\$72,150.89	\$15,383,700.49	\$15,455,851.38	9.46%	\$178,921,791.38	0	368	368	1,646	10/31/2017
50.1	Electrical Modifications to FOG Local Control Panel 70-LCP-0710 (CR-304) PR 4286 Task 5.30	A	IRWD	\$6,614.77						0				
50.2	Condensate Modifications at Digester Gas Pre-Treatment Area (CR-312) PR 4286 Task 5.31	C	FBB	\$9,826.09						0				
50.3	Installation of Lindapters Instead of Eye Bolts (CR-413) PR 4286 Task 5.29	A	FBB	\$13,346.01						0				
50.4	T-5 Connection to Biosolids Switch-14 (CR-480) PR 4286 Task 5.30	A	IRWD	\$35,170.26						0				
50.5	Polymer Feeder Blender Skids Flow Element Grounding Conductor (CR-482) PR 4286 Task 5.30	C	IRWD	\$7,193.76						0				
51	Approved by Executive Director of Engineering & Water Quality Approved on March 31, 2017				(\$126,390.00)	\$15,455,851.38	\$15,329,461.38	9.38%	\$178,795,401.38	0	368	368	1,646	10/31/2017
51.1	Credit for Overtime Inspection Hours From 1/1/2016 to Through 12/31/2016 (CR-089C) PR 4286 Task 4.0	F	IRWD	(\$97,570.00)						0				
51.2	Credit for Overtime Inspection Hours From 1/1/2017 to Through 03/31/2017 (CR-089D) PR 4286 Task 4.0	E	IRWD	(\$28,820.00)						0				

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52	Approved by General Manager Approved on April 28, 2017				\$98,342.16	\$15,329,461.38	\$15,427,803.54	9.44%	\$178,893,743.54	0	368	368	1,646	10/31/2017
	52.1 Removal of Unsuitable Alluvium (CR-146H) PR 4286 Task 5.29	B	FBB	\$3,564.32						0				
	52.2 Polymer Dilution Water Flowmeters (CR-159A) PR 4286 Task 5.31	A	IRWD	\$14,090.39						0				
	52.3 Aluminum Handrail and Guardrail Modifications at Liquid Chemical and Polymer Areas (CR-171) PR 4286 Task 5.30	A	IRWD	\$13,765.20						0				
	52.4 Modifications Due to Solids Handling Building Electrical Room Equipment Clearance Issues (CR-196) PR 4286 Task 5.30	C	FBB	\$9,382.01						0				
	52.5 Data and Telephone Outlets in Solids Handling Building (CR-261) PR 4286 Task 5.30	A	IRWD	\$27,620.21						0				
	52.6 HVAC Duct Modifications in Dewatering Feed Pump Station (CR-268) PR 4286 Task 5.31	C	FBB	\$16,023.50						0				
	52.7 Coating of 8 Roll-up doors (CR-358) PR 4286 Task 5.29	A	IRWD	\$5,710.32						0				
	52.8 Upsizing Wire Size of Dewatering Feed Pump Station Main Breaker Light Panel LP-3501 (CR-390) PR 4286 Task 5.30	A	IRWD	\$1,449.75						0				
	52.9 Modifications to the Roofs of the Solids Handling Building and Digester Control Building (CR-528) PR 4286 Task 5.29	A	IRWD	\$6,736.46						0				
53	Exe. Director of Water Quality and Engineering Approved on June 5, 2017				\$42,281.96	\$15,427,803.54	\$15,470,085.50	9.46%	\$178,936,025.50	0	368	368	1,646	10/31/2017
	53.1 Modifications to Regenerative Thermal Oxidizer (RTO) Drainage and Utility Water Piping (CR-267) PR 4286 Task 5.31	C	IRWD	\$33,814.80						0				
	53.2 Modifications to Liquid Chemical Feed Control Panel Wiring (CR-396) per RFI-1602 PR 4286 Task 5.30	C	FBB	\$8,467.16						0				
54	Approved by General Manager Approved on June 19, 2017				\$44,210.51	\$15,470,085.50	\$15,514,296.01	9.49%	\$178,980,236.01	0	368	368	1,646	10/31/2017
	54.1 Modifications to Thickening and Dewatering Platforms (CR-195) PR 4286 Task 5.29	C	FBB	\$44,210.51						0				
55	Approved by General Manager Approved on July 3, 2017				\$94,352.43	\$15,514,296.01	\$15,608,648.44	9.55%	\$179,074,588.44	0	368	368	1,646	10/31/2017
	55.1 Additional Pipe Supports of 54-Inch Fiberglass Reinforced Air Duct (CR-106A) PR 4286 Task 5.29	C	FBB	\$14,211.18						0				
	55.2 Natural Gas Step Down Manifolds and Gas Transition Piping (CR-146G) PR	B	IRWD	\$20,489.32						0				
	55.3 Modifications to the West End Stair Landing of the Solids Handling Building (CR-315) PR 4286 Task 5.29	B	IRWD	\$5,622.11						0				

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	55.4 Regenerative Thermal Oxidizer (RTO) Pad Modifications (CR-400) PR 4286 Task 5.29	C	FBB	\$8,471.16						0				
	55.5 Addition of Thin Client at the Dryer Facility (CR-485) PR 4286 Task 5.30	A	IRWD	\$36,874.10						0				
	55.6 Change in Size to 2 Check Valves in the Digester Control Building (CR-514) PR 4286 Task 5.31	C	FBB	\$8,684.56						0				
56	Approved by Board Approved on July 24, 2017				\$201,744.33	\$15,608,648.44	\$15,810,392.77	9.67%	\$179,276,332.77	0	368	368	1,646	10/31/2017
	56.1 Addition Of Stairs and Platform to RTO (CR-266) PR 4286 Task 5.29	A	IRWD	\$101,744.33						0				
	56.2 Microturbine CLC (ESC Capstone) per RFI 1141 (CR-277) PR 4286 Task 5.30	B	FBB	\$100,000.00						0				
57	Approved by General Manager Approval on August 5, 2017				\$98,886.90	\$15,810,392.77	\$15,909,279.67	9.73%	\$179,375,219.67	0	368	368	1,646	10/31/2017
	57.1 Additional Support at Digester Control Building (CR-342) PR 04286 Task 5.29	C	IRWD	\$2,522.47						0				
	57.2 Pipe and Duct Hanger Modifications (CR-362) PR 04286 Task 5.29	C	IRWD	\$4,083.12						0				
	57.3 Increase Wire Size of Main Breaker PP-3501 (CR-418) PR 04286 Task 5.30	C	FBB	\$696.66						0				
	57.4 Roof Vent at DCB Elevator/Stair Tower (CR-437) PR 04286 Task 5.29	B	IRWD	\$8,563.72						0				
	57.5 T-14 Fixed Type Manual Operator per Submittal 16443-0016A (CR-540) PR 04286 Task 5.31	C	IRWD	\$1,945.62						0				
	57.6 Area Classification at Methane Digesters to meet NFPA Table 6.2(a) - Plug Valves Limit Switches (CR-557) PR 04286 Task 5.30	C	FBB	\$64,195.15						0				
	57.7 Area Classification at Methane Digesters to meet NFPA Table 6.2(a) - Sump Pump Cable Retrofit PR 04286 Task 5.30	C	FBB	\$16,880.16						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filano/Balfour-Beatty  
Design Engineer: Black & Veatch

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
58	Approved by Board of Directors Approval on August 28, 2017				\$182,938.94	\$15,909,279.67	\$16,092,218.61	9.84%	\$179,558,158.61	0	368	368	1,646	10/31/2017
	58.1 Concrete Cap over Shallow Pipe Crossings (CR-348) PR 04286 Task 5.31	B	FBB	\$7,923.00						0				
	58.2 Additional Conduit and Wiring for Sludge Screen Moisture Sensors (CR-381) PR 04286 Task 5.30	C	FBB	\$8,355.32						0				
	58.3 SCADA Programming Modifications (CR-433/476/546/547/551) PR 04286 Task 5.30	A	IRWD	\$15,758.38						0				
	58.4 Polymer Storage Power Panels Wire and Breaker Modifications (CR-456) PR 04286 Task 5.30	C	FBB	\$24,238.65						0				
	58.5 Odor Control Starter Modifications (CR-466) PR 04286 Task 5.30	B	FBB	\$41,436.09						0				
	58.6 Odor Control Fan Remote Temperature Device Revisions (CR-522) PR 04286 Task 5.30	A	IRWD	\$52,484.50						0				
	58.7 Re-location of Digester Control Building Gas Room Local Control Panels (CR-534) PR 04286 Task 5.30	A	FBB	\$32,743.00						0				
59	Approved by Exe. Director of Water Quality and Engineering Approval on September 6, 2017				\$98,988.68	\$16,092,218.61	\$16,191,207.29	9.90%	\$179,657,147.29	0	368	368	1,646	10/31/2017
	59.1 Modifications to Building 101 (CR-212) PR 04286 Task 5.30	E	FBB	\$26,500.00						0				
	59.2 Change in Conduit Size in Area 20 (CR-292) PR 04286 Task 5.10	C	FBB	\$1,946.70						0				
	59.3 Centrifuge Discharge Cake Conveyors Schematic Modifications (CR-422) PR 04286 Task 5.10	C	FBB	\$6,410.04						0				
	59.4 Power Monitor Programming Modifications (CR-539) PR 04286 Task 5.10	A	IRWD	\$2,595.60						0				
	59.5 SCADA Programming Modifications (CR-547A) PR 04286 Task 5.10	A	IRWD	\$1,574.86						0				
	59.6 Change in Area Classification at Methane Digesters to meet NFPA Standards - MOVs (CR-557B) PR 04286 Task 5.10	C	FBB	\$54,736.73						0				
	59.7 FOG Heating Disconnect Switch Relocation (CR-559) PR 04286 Task 5.10	C	FBB	\$5,224.75						0				
60	Approved by Exe. Director of Water Quality and Engineering Approval on September 5, 2017				(\$34,540.00)	\$16,191,207.29	\$16,156,667.29	9.88%	\$179,622,607.29	0	368	368	1,646	10/31/2017
	60.1 Credit for Overtime Inspection Hours From 4/1/2017 Through 6/30/2017 (CR-089E) PR 04286 Task 4.0	F	FBB	(\$34,540.00)						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
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61	Approved by Exe. Director of Water Quality and Engineering Approved on September 6, 2017 61.1 Credit for Bulk Polymer Storage Changes per RFI-0863 and Submittal 15140-013B (CR-168) PR 04286 Task 5.16	E	FBB	(\$1,752.39)	(\$1,752.39)	\$16,156,667.29	\$16,154,914.90	9.88%	\$179,620,854.90	0	368	368	1,646	10/31/2017
62	Approved by Board of Directors Approved on October 9, 2017 62.1 Fats, Oil, and Grease (FOG) Modifications (CR-223A) PR 04286 Task 5.30 62.2 Density Meter Conduit and Cabling Modifications (CR-326) PR 04286 Task 5.30 62.3 Fiber Optic Modifications (CR-356) PR 04286 Task 5.30 62.4 Sludge Screen Pneumatic Control Panel Conduit and Cabling (CR-380) PR 04286 Task 5.30 62.5 Additional Circuits for Control of the Thickening Centrifuges (CR-386) PR 04286 Task 5.30 62.6 Upsize of Power Panel PP-8001 Circuit Breaker (CR-414) PR 04286 Task 5.30 62.7 Electrical Power Feeders to Electric Water Heater (CR-426) PR 04286 Task 5.30 62.8 Chemical Sump Pump Control Panel Space Heater Wiring Modifications (CR-461) PR 04286 Task 5.30 62.9 Relocate Electrical Feeders to Generator Bus (CR-462) PR 04286 Task 5.30 62.10 Electrical and Instrumentation Related Components for the Installation of Thin Client at Dryer Facility (CR-485A) PR 04286 Task 5.30 62.11 Polymer Room Eye Wash Station Flow Switches (CR-535) PR 04286 Task 5.30 62.12 Chemical Storage and Feed Modifications (CR-563) PR 04286 Task 5.30 62.13 PLC Redundancy Hot Standby Status Register (CR-568) PR 04286 Task 5.30	A	IRWD	\$52,174.90	\$708,162.72	\$16,154,914.90	\$16,863,077.62	10.32%	\$180,329,017.62	0	368	368	1,646	10/31/2017

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
63	Approved by General Manager Approved on October 2, 2017				\$91,766.09	\$16,863,077.62	\$16,954,843.71	10.37%	\$180,420,783.71	0	368	368	1,646	10/31/2017
63.1	Electrical Modifications to RIO-2001 (CR-269) PR 04286 Task 5.30	C	IRWD	\$30,563.48						0				
63.2	Modifications to RIO-4002 (CR-285) PR 04286 Task 5.30	C	FBB	\$14,563.39						0				
63.3	Cap for 12-Inch Storm Drain (CR-351) PR 04286 Task 5.16	B	FBB	\$2,394.54						0				
63.4	Access Hatch for Regenerative Thermal Oxidizer Pipe Chase (CR-473) PR 04286 Task 5.31	C	FBB	\$3,958.91						0				
63.5	Electrical Upgrades to RIO-4002 (CR-447) PR 04286 Task 5.30	A	FBB	\$40,285.77						0				
64	Approved by Board of Directors Approved on October 23, 2017				\$231,100.22	\$16,954,843.71	\$17,185,943.93	10.51%	\$180,651,883.93	0	368	368	1,646	10/31/2017
64.1	Modifications to Centrate Treatment Facility Stairs (CR-379) PR 04286 Task 5.29	B	FBB	\$9,758.16						0				
64.2	Modifications to Ductwork in Solids Handling Building (CR-401) PR 04286 Task 5.31	C	FBB	\$9,537.05						0				
64.3	Electrical Conduits and Wires for Additional Bridge Breakers for Cake Receiving Pumps (CR-416) PR 04286 Task 5.30	B	FBB	\$21,678.83						0				
64.4	Handrail Modifications at the Methane Digesters (CR-472) PR 04286 Task 5.29	B	FBB	\$22,154.53						0				
64.5	Electrical and Instrumentation Related Components for the Installation of Thin Client at Dryer Facility (CR-485B) PR 04286 Task 5.30	A	IRWD	\$53,090.84						0				
64.6	Electrical Modifications at the Motor Control Centers for the Acid Phase Sludge Heating Recirculation Pumps (CR-517) PR 04286 Task 5.30	A	IRWD	\$47,611.11						0				
64.7	FOG Receiving Pumps Thermocouple and Thermostat Wiring (CR-525) PR 04286 Task 5.30	C	FBB	\$37,826.58						0				
64.8	SCADA Programming Changes (CR-537/570/573/573A) PR 04286 Task 5.30	A	IRWD	\$23,694.13						0				
64.9	Change of Limit Switches for Buried Service (CR-560) PR 04286 Task 5.30	C	FBB	\$5,748.99						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
65	Approved by Board of Directors Approved on October 23, 2017				\$149,591.14	\$17,185,943.93	\$17,335,535.07	10.60%	\$180,801,475.07	0	368	368	1,646	10/31/2017
65.1	Additional Conduits and Wires for the Engine Generator, Switchgear-16, and Switchgear-16 Programmable Logic Controller (CR-204) PR 04286 Task 5.30	C	FBB	\$100,000.00						0				
65.2	Modifications to Spirac Conveyor in the Solids Handling Building (CR-409) PR 04286 Task 5.31	B	FBB	\$13,641.00						0				
65.3	Additional Metal Bridge Walkway Structural Support Angles (CR-420) PR 04286 Task 5.29	B	FBB	\$35,950.14						0				
66	Approved by General Manager Approved on November 30, 2017				\$98,201.20	\$17,335,535.07	\$17,433,736.27	10.67%	\$180,899,676.27	0	368	368	1,646	10/31/2017
66.1	SCADA Programming Modifications and Updates (CR-247A/CR-469/CR-485C/CR-571/CR-575A/CR-579/CR-580/CR-585) PR 04286 Task 5.30	A	IRWD	\$61,734.78						0				
66.2	Installation of Sump Pump Floats (CR-452) PR 04286 Task 5.31	A	IRWD	\$17,228.56						0				
66.3	Electrical Work Associated with Air Handling/Heating Units, Recycle Bin Feed Conveyor, and Recycle Bucket Elevator in the Solids Handling Building (CR-457/CR-529) PR 04286 Task 5.30	B	IRWD	\$11,003.85						0				
66.4	Additional Wires and Conduits for FOG Receiving Valves (CR-565) PR 04286 Task 5.30	B	FBB	\$6,368.21						0				
66.5	Additional Door Cover Plates for MCC-4100 and MCC-4101	B	IRWD	\$1,865.80						0				
67	Approved by Exe. Dir of Engineering and Water Quality Approved on November 30, 2017				(\$53,626.83)	\$17,433,736.27	\$17,380,109.44	10.63%	\$180,846,049.44	0	368	368	1,646	10/31/2017
67.1	Credit for Overtime Inspection Hours from 07/1/2017 to 09/30/2017 (CR-089F) PR 04286 Task 4.0	F	FBB	(\$19,140.00)						0				
67.2	Credit for Additional Conduits and Wires for the Engine Generator, Switchgear-16, and Switchgear-16 Programmable Logic Controller (CR-204A) PR 04286 Task 5.30	E	FBB	(\$13,591.83)						0				
67.3	Deletion of Pavement Prime Coat (CR-331D) PR 04286 Task 5.29	A	IRWD	(\$20,895.00)						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filano/Balfour-Beatty  
Design Engineer: Black & Veatch

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
68	Approved by Board of Directors Approved on December 11, 2017				\$569,553.19	\$17,380,109.44	\$17,949,662.63	10.98%	\$181,415,602.63	0	368	368	1,646	10/31/2017
68.1	Fats, Oil, and Grease (FOG) Modifications (CR-223) PR 04286 Task 5.30	A	IRWD	\$83,648.47						0				
68.2	Additional Electrical Outlets and Circuits in the Solids Handling Building (CR-453) PR 04286 Task 5.30	A	IRWD	\$44,054.83						0				
68.3	Control Panel Modifications in the Methane Digester Complex (CR-545) PR 04286 Task 5.30	C	IRWD	\$55,414.03						0				
68.4	Additional Electrical, Instrumentation, and Controls for the Heat Dryer System (CR-270 and CR-471A through CR-471G, CR-496, and CR-555) PR 04286 Task 5.30	B	FBB	\$386,435.86						0				
69	Approved by General Manager Approved on December 20, 2017				\$90,846.69	\$17,949,662.63	\$18,040,509.32	11.04%	\$181,506,449.32	0	368	368	1,646	10/31/2017
69.1	Power Supply Failure Alarms for Acid Gas Boosters (CR-477) PR 04286 Task 5.30	A	IRWD	\$10,965.90						0				
69.2	Addition of Waste Gas Burner Instrument Air Compressor System (Electrical) (CR-484A) PR 04286 Task 5.30	C	IRWD	\$8,046.52						0				
69.3	Circuit Breaker for MOC-2034 (CR-541) PR 04286 Task 5.30	B	IRWD	\$2,389.56						0				
69.4	Change in Limit Switches Located in the Methane Digester Complex Due Electrical Classification Change (CR-557D) PR 04286 Task 5.30	C	IRWD	\$37,744.12						0				
69.5	Change in Limit Switches Located in the Methane Digester Complex Due Electrical Classification Change (CR-582) PR 04286 Task 5.30	C	IRWD	\$16,228.03						0				
69.6	SCADA Programming Changes – Totalizers (CR-590) PR 04286 Task 5.30	A	IRWD	\$7,830.90						0				
69.7	Control Panel Modifications in the Methane Digester Complex (CR-592) PR 04286 Task 5.30	A	IRWD	\$7,641.66						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
70	Approved by Exe. Dir of Engineering and Water Quality Approved on January 23, 2018				\$73,972.77	\$18,040,509.32	\$18,114,482.09	11.08%	\$181,580,422.09	0	368	368	1,646	10/31/2017
70.1	Addition of Limit Switches on Gas Dryer Heat Exchanger (CR-303) PR 04286 Task 5.30	A	IRWD	\$17,367.32						0				
70.2	Change of Electrical Classification of Valve Limit Switches at Acid Phase Digester Complex (CR-415) PR 04286 Task 5.30	C	IRWD	\$24,018.04						0				
70.3	Power Source to the Solids Handling Building Bridge Cranes (CR-574) PR 04286 Task 5.30	C	IRWD	\$27,479.58						0				
70.4	Investigation of Street Lights, South side of Biosolids Site (CR-613) PR 04286 Task 5.30	A	IRWD	\$1,204.20						0				
70.5	Additional Switches in the Solids Handling Building (CR-625) PR 04286 Task 5.30	A	IRWD	\$3,903.63						0				
71	Approved by Exe. Dir of Engineering and Water Quality Approved on January 31, 2018				(\$12,210.00)	\$18,114,482.09	\$18,102,272.09	11.07%	\$181,568,212.09	0	368	368	1,646	10/31/2017
71.1	Credit for Overtime Inspection Hours from 10/1/2017 to 12/31/2017 (CR-089G) PR 04286 Task 4.0	F	IRWD	(\$12,210.00)						0				
72	Approved by General Manager Approved on January 25, 2018				\$25,256.29	\$18,102,272.09	\$18,127,528.38	11.09%	\$181,593,468.38	0	368	368	1,646	10/31/2017
72.1	Installation of Breakers for Power Panel PP-8001 (CR-414A) PR 04286 Task 5.30	A	IRWD	\$25,256.29						0				
73	Approved by Board of Directors Approved on March 12, 2018				\$150,755.29	\$18,127,528.38	\$18,278,283.67	11.18%	\$181,744,223.67	0	368	368	1,646	10/31/2017
73.1	Additional Circuits for Control of the Dewatering Centrifuges (CR-386B) PR 04286 Task 5.30	B	FBB	\$150,755.29						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
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Contractor: Filane/Balfour-Beatty  
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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
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74	Approved by General Manager Approved on February 22, 2018				\$99,467.47	\$18,278,283.67	\$18,377,751.14	11.24%	\$181,843,691.14	0	368	368	1,646	10/31/2017
74.1	Access Platform to Heat Dryer Acid Scrubber (CR-485D) PR 04286 Task 5.30	A	IRWD	\$14,637.02						0				
74.2	Modifications to the FRP Ducting in the Solids Handling Building (CR-491) PR 04286 Task 5.31	A	IRWD	\$20,171.39						0				
74.3	Power to Air Compressors and Pre-Action Panels of the Fire Sprinkler System (CR-526) PR 04286 Task 5.30	B	IRWD	\$24,442.16						0				
74.4	Electrical and Instrumentation Revisions to the FOG System (CR-578) PR 04286 Task 5.30	A	IRWD	\$13,035.52						0				
74.5	Addition of Centrate Air Purge System (CR-581) PR 04286 Task 5.30	A	IRWD	\$17,777.95						0				
74.6	Addition of Flame Checks on Foam Separator Digested Sludge Line (CR-587) PR 04286 Task 5.3	A	IRWD	\$3,038.27						0				
74.7	Modifications to 10-Ton Crane Stops (CR-589) PR 04286 Task 5.31	C	FBB	\$6,365.16						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

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Design Engineer: Black & Veatch

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
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75	Approved by General Manager Approved on March 2, 2018				\$98,698.78	\$18,377,751.14	\$18,476,449.92	11.30%	\$181,942,389.92	0	368	368	1,646	10/31/2017
75.1	Electrical Modifications to the Acid Phase Digester and Methane Phase Digester System (CR-252C) PR 04286 Task 5.30	A	IRWD	\$31,492.38						0				
75.2	Modifications to the Odor Control Panels (CR-382) PR 04286 Task 5.30	A	IRWD	\$12,726.70						0				
75.3	Additional Lock-Out Switch for the Bridge Breaker (CR-384A) PR 04286 Task 5.30	B	IRWD	\$14,276.72						0				
75.4	Additional On/Off Switch for Duct Fans (CR-384B) PR 04286 Task 5.30	A	IRWD	\$12,100.47						0				
75.5	Aeration Blower MCC Modifications (CR-481) PR 04286 Task 5.30	C	IRWD	\$14,441.86						0				
75.6	Addition of Level Switches and Solenoid Valves for Gas/Foam Separator Tanks (CR-566) PR 04286 Task 5.30	B	IRWD	\$7,568.99						0				
75.7	SCADA Template Update (CR-622) PR 04286 Task 5.30	A	IRWD	\$2,775.05						0				
75.8	Additional Lights in the Shower Stalls of the Solids Handling Building (CR-628) PR 04286 Task 5.30	C	FBB	\$1,639.80						0				
75.9	Relocation of Flow Switch in Sample Analysis Room (CR-637) PR 04286 Task 5.30	A	IRWD	\$1,676.81						0				
76	Approved by Board of Directors Approved on March 26, 2018				\$150,690.04	\$18,476,449.92	\$18,627,139.96	11.40%	\$182,093,079.96	0	368	368	1,646	10/31/2017
76.1	Power Feed to Microturbine PLCs (CR-289) PR 04286 Task 5.30	B	FBB	\$49,534.35						0				
76.2	Upsizing of Electrical Cables related to the Heat Drying System (CR-510) PR 04286 Task 5.30	B	FBB	\$4,670.94						0				
76.3	Additional Cables to MCC-1 (CR-538) PR 04286 Task 5.30	B	FBB	\$5,679.24						0				
76.4	Electrical Code Area Classification Change in the Digester Control Building Gas Room (CR-582A) PR 04286 Task 5.30	C	IRWD	\$8,804.31						0				
76.5	Addition of Water Source for the Foam Separator (CR-583) PR 04286 Task 5.31	C	FBB	\$8,418.23						0				
76.6	SCADA Modifications on Solids Handling Polymer System (CR-620) PR 04286 Task 5.30	A	IRWD	\$7,761.00						0				
76.7	3-Way Valve Graphical Modifications to SCADA (CR-621) PR 04286 Task 5.30	A	IRWD	\$22,540.18						0				
76.8	SCADA Modifications on FOG System (CR-623) PR 04286 Task 5.30	A	IRWD	\$7,970.58						0				
76.9	SCADA Modifications on the Digested Tank Level (CR-626) PR 04286 Task 5.30	A	IRWD	\$8,898.86						0				
76.10	Solids Handling Building Stair Modifications (CR-634) PR 04286 Task 5.29	C	FBB	\$26,412.35						0				

A - District Convenience/Initiation - Project Related  
B - Differing Site Conditions  
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D - District Convenience/Initiation - Non-Project Related  
E - Contractor Convenience/Initiation  
F - Contractor Requested Inspection Overtime

**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
77	Approved by General Manager Approved on April 30, 2018				\$94,371.12	\$18,627,139.96	\$18,721,511.08	11.45%	\$182,187,451.08	0	368	368	1,646	10/31/2017
77.1	Modifications of Notching Shear Lugs - Solids Handling Building (CR-299A) PR 04286 Task 5.29	C	FBB	\$1,269.23						0				
77.2	Cake Storage Hopper Conveyor Control Changes (CR-384) PR 04286 Task 5.30	A	IRWD	\$30,869.71						0				
77.3	Electrical Testing for Manual Transfer Switchgear SWGR-14 (CR-474A) PR 04286 Task 5.30	C	FBB	\$5,891.73						0				
77.4	Additional HVAC Fan Coil Power Circuits (CR-474A) PR 04286 Task 5.30	B	FBB	\$16,053.47						0				
77.5	Modifications to Digester Control Building Roof Guardrail and Bridge Steps (CR-617) PR 04286 Task 5.29	B	IRWD	\$10,147.48						0				
77.6	Electrical Modifications to the Condensing Unit and Heat Pumps in the Solids Handling Building (CR-635) PR 04286 Task 5.30	A	FBB	\$9,551.13						0				
77.7	SCADA Control Logic Change in the Acid Phase Digester Area (CR-668) PR 04286 Task 5.30	A	IRWD	\$9,741.22						0				
77.8	SCADA Control Logic Change in the Polymer Thickening Tank Area (CR-669) PR 04286 Task 5.30	A	IRWD	\$8,144.54						0				
77.9	SCADA Control Logic Change in the Polymer Thickening Tank Area (CR-669) PR 04286 Task 5.30	A	IRWD	\$2,702.61						0				
78	Approved by Board of Directors Approved on April 26, 2018				\$344,006.55	\$18,721,511.08	\$19,065,517.63	11.66%	\$182,531,457.63	0	368	368	1,646	10/31/2017
78.1	Operator Interface Terminal (OIT) Indusoft Licensing Cost (CR-244) PR 04286 Task 5.30	A	IRWD	\$4,618.13						0				
78.2	Retaining Wall Modifications at Solids Handling Building (CR-331E) PR 04286 Task 5.29	C	IRWD	\$26,508.00						0				
78.3	Andritz Air Compressor Equipment Pad Modifications (CR-550) PR 04286 Task 5.31	C	FBB	\$6,729.00						0				
78.4	Waste Activated Sludge (WAS), Digested Sludge (DS), and Primary Sludge (PS) Piping Modifications (CR-594) PR 04286 Task 5.31	A	IRWD	\$28,967.68						0				
78.5	Modifications to MWRP Biosolids Hardscape (CR-331K) PR 04286 Task 5.29	A	IRWD	\$277,183.74						0				

A - District Convenience/Initiation - Project Related  
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E - Contractor Convenience/Initiation  
F - Contractor Requested Inspection Overtime

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filano/Balfour-Beatty  
Design Engineer: Black & Veatch

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
79	Approved by General Manager Approved on May 17, 2018				\$89,123.41	\$19,065,517.63	\$19,154,641.04	11.72%	\$182,620,581.04	0	368	368	1,646	10/31/2017
79.1	Addition of High Temperature Switches for the Primary Sludge/Waste Activated Sludge Wet Well Mixers (CR-377A) PR 04286 Task 5.30	C	FBB	\$12,145.12						0				
79.2	Utility Line Modifications in the Solids Handling Building (CR-521) PR 04286 Task 5.31	A	IRWD	\$2,163.21						0				
79.3	SCADA Programming Changes in the Methane Digester Area (CR-542) PR 04286 Task 5.30	A	IRWD	\$7,191.02						0				
79.4	MCC-4100 Bridge Breaker Modifications in the Bulk Polymer Storage Area (CR-562) PR 04286 Task 5.30	B	IRWD	\$9,905.77						0				
79.5	Electrical Modifications of Exhaust Air Unit in the Solids Handling Building (CR-618) PR 04286 Task 5.30	B	FBB	\$6,391.05						0				
79.6	SCADA Programming Changes on the Biosolids Conveyor Distribution System (CR-630) PR 04286 Task 5.30	A	IRWD	\$7,226.35						0				
79.7	Electrical Modifications to the Dewatering Conveyors in the Solids Handling Building (CR-672) PR 04286 Task 5.30	B	FBB	\$21,239.15						0				
79.8	Additional Space Heater for Regenerative Thermal Oxidizer Draft Fan (CR-675) PR 04286 Task 5.30	A	FBB	\$9,351.07						0				
79.9	SCADA Programming Update on the Acid Phase Sludge Transfer Pumps (CR-689) PR 04286 Task 5.30	A	IRWD	\$13,510.67						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
80	Approved by Board of Directors Approved on May 29, 2018				\$313,076.14	\$19,154,641.04	\$19,467,717.18	11.91%	\$182,933,657.18	0	368	368	1,646	10/31/2017
80.1	Modifications to MCC-4100, MCC-4101 and MCC-4102 (CR-384) PR 04286 Task 5.30	C	FBB	\$36,158.66						0				
80.2	Modifications to MCC-4102 and MCC-4103 (CR-384D) PR 04286 Task 5.30	C	FBB	\$63,388.51						0				
80.3	Separate Air Compressor System Electrical Panel for Waste Gas Burner (CR-484B) PR 04286 Task 5.3	B	FBB	\$50,723.04						0				
80.4	Additional Power Monitoring Equipment for Self-Generation Incentive Program (CR-577) PR 04286 Task 5.30	A	IRWD	\$34,887.16						0				
80.5	Electrical Modifications for the Gas Compressor Detector and Enclosure Fire Alarm Panel (CR-629) PR 04286 Task 5.30	A	IRWD	\$13,215.42						0				
80.6	Additional Power Circuits for the Solids Handling Building Roll-Up Doors (CR-631) PR 04286 Task 5.30	C	IRWD	\$24,446.58						0				
80.7	Modifications to Digested Sludge Line (CR-648) PR 04286 Task 5.31	C	FBB	\$17,023.42						0				
80.8	Relocation of Local Control Panel in the Solids Handling Building (CR-676) PR 04286 Task 5.30	C	FBB	\$34,619.35						0				
80.9	Additional Manual Valves and Components for Heat Dryer System (CR-683) PR 04286 Task 5.30	C	FBB	\$38,614.00						0				
81	Pending Approval by Executive Director of Engineering and Water Quality Pending Approval on June 1, 2018				\$2,566.55	\$19,467,717.18	\$19,470,283.73	11.91%	\$182,936,223.73	0	368	368	1,646	10/31/2017
81.1	Modifications to Duct and Cable Tray Support in Dryer Room (CR-125) PR 04286 Task 5.30	A	FBB	\$2,566.55						0				
82	Pending Approval by Executive Director of Engineering and Water Quality Pending Approval on June 1, 2018				(\$75,950.64)	\$19,470,283.73	\$19,394,333.09	11.86%	\$182,860,273.09	0	368	368	1,646	10/31/2017
82.1	Credit for Overtime Inspection Hours from 01/01/2018 to 3/31/2018 (CR-089H) PR 04286 Task 4.0	F	FBB	(\$3,740.00)						0				
82.2	Odor Control Fan Platform Modifications (CR-334) PR 04286 Task 5.31	A	IRWD	(\$8,498.82)						0				
82.3	Chemical Piping Modifications Between Chemical Storage and Odor Control Areas (CR-387) PR 04286 Task 5.31	A	IRWD	(\$20,197.71)						0				
82.4	Ferric Chloride Piping Modifications in the Thickened Sludge Area (CR-388) PR 04286 Task 5.31	A	IRWD	(\$26,067.00)						0				
82.5	Ferric Chloride Piping Re-Route South of the Solids Handling Building (CR-423) PR 04286 Task 5.31	A	IRWD	(\$17,447.11)						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
83	Pending Approval by Executive Director of Engineering and Water Quality Pending Approval on June 1, 2018				\$81,901.09	\$19,394,333.09	\$19,476,234.18	11.91%	\$182,942,174.18	0	368	368	1,646	10/31/2017
83.1	Andritz Pellet Silo Structure Conflict (CR-554) PR 04286 Task 5.29	C	FBB	\$4,963.98						0				
83.2	Additional Power Circuits for the Solids Handling Building Roll-Up Doors (CR-631A) PR 04286 Task 5.30	C	FBB	\$32,998.95						0				
83.3	SCADA Programming Update – Gas Booster System (CR-670) PR 04286 Task 5.30	A	IRWD	\$14,981.13						0				
83.4	Electrical Receptacles for Deionized Water System (CR-692A) PR 04286 Task 5.30	A	IRWD	\$4,546.34						0				
83.5	Cable Work Related in MCC-1 to Harmonic Filters (CR-694) PR 04286 Task 5.30	A	IRWD	\$6,932.07						0				
83.6	SCADA Update to Valve Matrix Sludge Heat Transfer System (CR-699) PR 04286 Task 5.30	A	IRWD	\$17,478.62						0				
84	Pending Approval by Board of Directors Pending Approval on June 25, 2018				\$105,492.90	\$19,476,234.18	\$19,581,727.08	11.98%	\$183,047,667.08	0	368	368	1,646	10/31/2017
84.1	Electrical Modifications Due to the Addition of Grease Pumps (CR-619) PR 04286 Task 5.30	B	FBB	\$105,492.90						0				

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**MWRP Biosolids and Energy Recovery Facilities  
PR 21146 (4286)  
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty  
Design Engineer: Black & Veatch

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date

Category	Total Amount	% of Original Contract
A - District Convenience/Initiation - Project Related	\$ 3,388,993.51	2.07%
B - Differing Site Conditions	\$ 12,764,549.66	7.81%
C - Design Oversight	\$ 3,595,641.37	2.20%
D - District Convenience/Initiation - Non-Project Related	\$ -	0.00%
E - Contractor Convenience/Initiation	\$ 98,302.54	0.06%
F - Contractor Requested Inspection Overtime	\$ (265,760.00)	-0.16%
<b>TOTAL (A + B + C + D + E + F)</b>	<b>\$ 19,581,727.08</b>	<b>11.98%</b>

Category	Total Amount	% of Original Contract
IRWD-Initiation/Driven	\$ 4,438,423.38	2.72%
FBB-Initiation/Driven	\$ 14,965,651.41	9.16%
N/A	\$ 170,720.22	0.10%
<b>TOTAL</b>	<b>\$ 19,574,795.01</b>	<b>11.97%</b>

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F - Contractor Requested Inspection Overtime

June 25, 2018

Prepared by: Lisa Srader

Submitted by: Jenny Roney

Approved by: Paul Cook



## CONSENT CALENDAR

### ADOPTION OF FISCAL YEAR 2018-2019 DISTRICT SALARY GRADE SCHEDULES AND COST OF LIVING ADJUSTMENT FOR MANAGERS, EXEMPT SUPERVISORS, CONFIDENTIAL AND EXEMPT EMPLOYEES AND ADOPTION OF REVISED SALARY GRADE SCHEDULE FOR THE GENERAL EMPLOYEES UNIT AND THE NEW SALARY GRADE SCHEDULE FOR THE NON-EXEMPT SUPERVISOR UNIT

#### SUMMARY:

Staff recommends that the Board adopt a resolution rescinding Resolution No. 2017-16 and revise District Salary Grade Schedules for Managers, Exempt Supervisors, Confidential and Exempt Employees, which include revisions to positions and salary rate changes effective July 1, 2018. In addition, staff recommends that the Board adopt a resolution and revise District Salary Grade Schedules for the General Employees Unit and the Non-Exempt Supervisor Unit, which include revisions to positions without changes to the salary rate ranges effective July 1, 2018.

#### BACKGROUND:

Each year, during the process of developing the Operating Budget, staff reviews the current budgeted positions to determine the staffing levels necessary for the most efficient and effective operation of the District. The revised schedules of positions (provided as schedules of the resolutions respectively) are Schedule I for the Managers, Exempt Supervisors, Confidential and Exempt Employees and Schedule II for the General Employees Unit and Non-Exempt Supervisor Units. The revised positions were approved as part of the FY 2018-19 Operating Budget, adopted by the Board on April 23, 2018. Staff has prepared resolutions as provided in Exhibits "A" and "B" for adoption of these two schedules.

In early 2018, the District negotiated with the International Brotherhood of Electrical Workers (IBEW) Local #47 to become the exclusive representative of a new Non-Exempt Supervisor Unit of employees, effective January 16, 2018, and the exclusive representative of the existing General Employees Unit effective February 28, 2018, excluding Exempt position classifications. The process of negotiating a Memoranda of Understanding with both of these units is currently in progress.

Each year, staff recommends changes to the District Salary Grade Schedule for Managers, Exempt Supervisors, Confidential and Exempt Employees and a Cost of Living Adjustment (COLA) to employee salaries for eligible employees based on the 12-month change in the Consumer Price Index (CPI) posted by the Bureau of Labor Statistics for the Los Angeles and Orange County areas. On July 11, 2016, the Board of Directors approved the transition from using the September to September change in the CPI with a December 1 COLA effective date to the April to April change in CPI with a July 1 COLA effective date. In May 2018, the Bureau of Labor Statistics released the Los Angeles-Anaheim-Long Beach CPI for the period ended April

Consent Calendar: Adoption of Fiscal Year 2018-2019 District Salary Grade Schedules and Cost of Living Adjustment for Managers, Exempt Supervisors, Confidential and Exempt Employees and Adoption of Revised Salary Grade Schedules for the General Employees Unit and the Non-Exempt Supervisor Unit

June 25, 2018

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2018, which reflects a 4% increase from April 2017, the last index used by the District for eligible employee COLA adjustments.

The revised District Salary Grade Schedules for FY 2018-19 incorporate the following changes:

- Managers, Exempt Supervisors, Confidential and Exempt Employees Salary Schedule - Position classification revisions approved by the Board of Directors in the Fiscal Year 2018-19 Operating Budget, addition of Exempt positions classifications from the General Unit Salary Schedule and a 4% adjustment to the salary ranges provided as the attachment to the resolution (Exhibit "A");
- General Employee Unit Salary Schedule - Removal of certain exempt employees from the General Unit Salary Schedule to the Managers, Exempt Supervisors, Confidential and Exempt Employees Salary Schedule and position classification revisions approved by the Board of Directors in the Fiscal Year 2018-19 Operating Budget provided as the attachment to the resolution (Exhibit "B"); and
- Non-Exempt Supervisor Unit Salary Schedule – New Salary Grade Schedule and position classification revisions approved by the Board of Directors in the Fiscal Year 2018-2019 Operating Budget provided as the attachment to the resolution (Exhibit "B").

FISCAL IMPACTS:

The fiscal impact of a 4% COLA for Managers, Exempt Supervisors, Confidential and Exempt Employees is approximately \$600,000 of which \$300,000 was included in the FY 2018-19 Operating Budget approved by the Board on April 23, 2018. The position classification revisions were included in the FY 2018-19 approved Operating Budget. The District has adequate operating funds to implement the recommended action.

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

1) THAT THE BOARD APPROVE THE REVISED MANAGERS, EXEMPT SUPERVISORS, CONFIDENTIAL AND EXEMPT EMPLOYEES SALARY GRADE SCHEDULE; APPROVE A JULY 1, 2018 4% COST OF LIVING ADJUSTMENT FOR SALARIES OF EMPLOYEES IN POSITIONS LISTED IN THE MANAGERS, EXEMPT SUPERVISORS, CONFIDENTIAL AND EXEMPT EMPLOYEES SALARY GRADE SCHEDULE AND ADOPT THE FOLLOWING RESOLUTION BY TITLE:

Consent Calendar: Adoption of Fiscal Year 2018-2019 District Salary Grade Schedules and Cost of Living Adjustment for Managers, Exempt Supervisors, Confidential and Exempt Employees and Adoption of Revised Salary Grade Schedules for the General Employees Unit and the Non-Exempt Supervisor Unit

June 25, 2018

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RESOLUTION NO. 2018 -

RESOLUTION OF THE BOARD OF DIRECTORS OF THE  
IRVINE RANCH WATER DISTRICT RESCINDING  
RESOLUTION NO. 2017- 16 AND ADOPTING REVISED  
SALARY GRADE SCHEDULE FOR MANAGERS, EXEMPT  
SUPERVISORS, CONFIDENTIAL AND EXEMPT  
EMPLOYEES, AND

2) THAT THE BOARD APPROVE THE REVISED SALARY GRADE SCHEDULE FOR THE GENERAL EMPLOYEE UNIT AND THE SALARY GRADE SCHEDULE FOR THE NEW NON-EXEMPT SUPERVISOR UNIT WITH NO CHANGES TO SALARY RATE RANGES AND ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2018 -

RESOLUTION OF THE BOARD OF DIRECTORS OF THE IRVINE RANCH WATER DISTRICT ADOPTING REVISED SALARY GRADE SCHEDULE FOR THE GENERAL EMPLOYEES UNIT AND NEW SALARY GRADE SCHEDULE FOR THE NON-EXEMPT SUPERVISOR UNIT

LIST OF EXHIBITS:

- Exhibit "A" – Resolution Rescinding Resolution 2017-16 and adopting revised salary grade Schedule for Managers, Exempt Supervisors, Confidential, and Exempt Employees.
- Exhibit "B" – Resolution adopting revised salary grade schedule for the General Employees Unit and new salary grade schedule for the Non-exempt Supervisor Unit.

**EXHIBIT "A-1"**

**RESOLUTION NO. 2018-**

**RESOLUTION OF THE BOARD OF DIRECTORS  
OF IRVINE RANCH WATER DISTRICT  
RESCINDING RESOLUTION NO. 2017-16 AND  
ADOPTING REVISED SALARY GRADE SCHEDULE FOR  
MANAGERS, EXEMPT SUPERVISORS, CONFIDENTIAL,  
AND EXEMPT EMPLOYEES**

The Board of Directors of Irvine Ranch Water District, by adoption of Resolution No. 2017-16 on June 26, 2017, established Schedules of Positions and Salary Rate Ranges of the Irvine Ranch Water District.

The Board of Directors of Irvine Ranch Water District has reviewed the Salary Grade Schedules and desires to make revisions to the schedules of positions and salary rate ranges for Managers, Exempt Supervisors, Confidential, and Exempt Employees.

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

Section 1. That Resolution No. 2017-16 adopted on June 26, 2017 is hereby rescinded, effective July 1, 2018.

Section 2. That the revised Salary Grade Schedule set forth in Schedule 1 to this Resolution, which provides for a revised schedule of positions and revised salary rate ranges for the Managers, Exempt Supervisors, Confidential, and Exempt Employees of Irvine Ranch Water District are hereby approved and adopted.

Section 3. That the provisions of this Resolution shall be effective July 1, 2018.

ADOPTED, SIGNED and APPROVED on June 25, 2018.

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

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

APPROVED AS TO FORM:  
LEWIS BRISBOIS BISGAARD & SMITH, LLP

By: \_\_\_\_\_  
District Counsel

**IRVINE RANCH WATER DISTRICT**

SCHEDULE "I"

**SALARY GRADE SCHEDULE**

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

July 1, 2018

<b>NON-EXEMPT</b>	<b>MINIMUM</b>		<b>MAXIMUM</b>		<b>EXCEPTIONAL PERFORMANCE TOP OF RANGE</b>	
Salary Grade U 1.N	2,824	2,937	3,502	3,642	3,676	3,823
Salary Grade U 2.N	2,886	3,001	3,598	3,742	3,778	3,929
Salary Grade U 3.N	2,946	3,064	3,696	3,844	3,882	4,037
Salary Grade U 4.N	3,000	3,120	3,804	3,956	3,994	4,154
Salary Grade U 5.N	3,069	3,192	3,910	4,066	4,105	4,269
Salary Grade U 6.N	3,129	3,254	4,023	4,184	4,224	4,393
Salary Grade U 7.N	3,191	3,319	4,135	4,300	4,342	4,516
Salary Grade U 8.N	3,261	3,391	4,253	4,423	4,465	4,644
Salary Grade U 9.N	3,323	3,456	4,370	4,545	4,590	4,774
Salary Grade U 10.N	3,392	3,528	4,490	4,670	4,713	4,902
Salary Grade U 11.N	3,458	3,596	4,605	4,789	4,833	5,026
Salary Grade U 12.N	3,526	3,667	4,739	4,929	4,978	5,177
Salary Grade U 13.N	3,592	3,736	4,875	5,070	5,121	5,326
Salary Grade U 14.N	3,673	3,820	5,013	5,214	5,264	5,475
Salary Grade U 15.N	3,752	3,902	5,146	5,352	5,404	5,620
Salary Grade U 16.N	3,840	3,994	5,290	5,502	5,554	5,776
Salary Grade U 17.N	3,922	4,079	5,423	5,640	5,694	5,922
Salary Grade U 18.N	4,008	4,168	5,568	5,791	5,848	6,082
Salary Grade U 19.N	4,099	4,263	5,709	5,937	5,996	6,236
Safety Assistant						
Salary Grade U 20.N	4,209	4,377	5,894	6,130	6,189	6,437
Salary Grade U 21.N	4,328	4,501	6,072	6,315	6,378	6,633
Salary Grade U 22.N	4,447	4,625	6,263	6,514	6,577	6,840
Executive Secretary Human Resources Assistant						
Salary Grade U 23.N	4,564	4,747	6,453	6,711	6,774	7,045
Salary Grade U 24.N	4,694	4,882	6,654	6,920	6,987	7,266
Salary Grade U 25.N	4,817	5,010	6,858	7,132	7,203	7,491
Human Resources Technician						

Salary Grade U 26.N	4,967	5,166	7,063	7,346	7,416	7,713
Executive Assistant						
Salary Grade U 27.N	5,110	5,314	7,270	7,561	7,634	7,939
Salary Grade U 28.N	5,259	5,469	7,486	7,785	7,862	8,176
Salary Grade U 29.N	5,415	5,632	7,704	8,012	8,089	8,413
Administrative Assistant Safety & Security Specialist						
Salary Grade U 30.N	5,580	5,803	7,932	8,249	8,329	8,662
Collection Systems Supervisor						
Salary Grade U 31.N	5,745	5,975	8,171	8,498	8,579	8,922
Cross-Connection Supervisor Facilities Services Supervisor Fleet Supervisor Human Resources Analyst						
Salary Grade U 32.N	5,910	6,146	8,412	8,748	8,833	9,186
User Support Administrator Mechanical Services Supervisor Network Administrator						
Salary Grade U 33.N	6,082	6,325	8,657	9,003	9,090	9,454
Water Maintenance Supervisor						
Salary Grade U 34.N	6,263	6,514	8,896	9,252	9,342	9,716
Construction Inspection Supervisor Automation Supervisor Electrical Supervisor Instrumentation Supervisor						
Salary Grade U 35.N	6,452	6,710	9,163	9,530	9,622	10,007
Operations Supervisor						
Salary Grade U 1.E	4,541	4,723	5,835	6,068	6,126	6,371
Salary Grade U 2.E	4,693	4,881	6,061	6,303	6,364	6,619
Salary Grade U 3.E	4,843	5,037	6,287	6,538	6,603	6,867
Salary Grade U 4.E	4,994	5,194	6,529	6,790	6,854	7,128
Salary Grade U 5.E	5,146	5,352	6,770	7,041	7,110	7,394
Salary Grade U 6.E	5,324	5,537	7,033	7,314	7,385	7,680
Salary Grade U 7.E	5,494	5,714	7,293	7,585	7,656	7,962
Salary Grade U 8.E	5,673	5,900	7,578	7,881	7,957	8,275
Salary Grade U 9.E	5,846	6,080	7,856	8,170	8,247	8,577
Salary Grade U 10.E	6,041	6,283	8,153	8,479	8,561	8,903
Asset Systems Analyst Assistant Engineer						

EXHIBIT "A-3"



Customer Service Supervisor							
Development Services Supervisor							
Management Analyst							
Public Affairs Analyst							
Regulatory Compliance Analyst							
Sr. Public Affairs Specialist							
Salary Grade U 11.E		6,235	6,484	8,454	8,792	8,878	9,233
Financial Analyst							
Purchasing Supervisor							
Senior Accountant							
Water Efficiency Supervisor							
Salary Grade U 12.E		6,437	6,694	8,780	9,131	9,216	9,585
Energy Analyst							
Lab QA/QC							
Source Control Program Administrator							
Treasury Analyst							
Salary Grade U 13.E		6,645	6,911	9,098	9,462	9,551	9,933
Accounting Supervisor							
GIS Supervisor							
Legal Analyst							
Right of Way Agent							
Senior Analyst							
Senior Human Resources Analyst							
Water Resources Planner							
Salary Grade U 14.E		6,861	7,135	9,448	9,826	9,920	10,317
Associate Engineer							
District Secretary							
QA/QC Compliance Administrator							
Salary Grade U 15.E		7,079	7,362	9,802	10,194	10,290	10,702
Applications Analyst							
Automation Programmer							
Laboratory Supervisor							
Senior Programmer/Analyst							
Senior Network Administrator							
Salary Grade U 16.E		7,315	7,608	10,172	10,579	10,682	11,109
Principal Analyst							
Salary Grade U 17.E		7,548	7,850	10,546	10,968	11,072	11,515
Asset Systems Manager							
Automation Manager							
Collection Systems Manager							
Construction Inspection Manager							
Construction Services Manager							
Customer Service Manager							
Electrical and Instrumentation Manager							
Engineer							
Facilities/Fleet Manager							
Field Services Manager							
Natural Resources Manager							
Purchasing Manager							

Safety <del>and Security</del> Manager						
Water Efficiency Manager						
<del>Water Maintenance Manager</del>						
Salary Grade U 18.E	<del>7,793</del>	8,105	<del>10,948</del>	11,386	<del>11,494</del>	11,954
<del>Human Resources Manager</del>						
<del>Chief Plant Operator</del>						
Manager of Risk & Contracts Administration						
Public Affairs Manager						
Regulatory Compliance Manager						
Senior Applications Analyst						
Senior Applications Developer						
Senior Database Administrator						
Treasury Manager						
<del>User Support Manager</del>						
Water Quality Manager						
Salary Grade U 19.E	<del>8,040</del>	8,362	<del>11,352</del>	11,806	<del>11,921</del>	12,398
Operations Manager						
<del>Electrical and Automation Manager</del>						
Mechanical Services Manager						
<del>Recycled Water Development Manager</del>						
Water Resources Manager						
Salary Grade U 20.E	<del>8,290</del>	8,622	<del>11,773</del>	12,244	<del>12,362</del>	12,856
Controller						
Manager of Strategic Planning and Analysis						
<del>Networking and Cybersecurity Manager</del>						
<del>Networking and Support Manager</del>						
Senior Engineer						
Salary Grade U 21.E	<del>8,543</del>	8,885	<del>12,198</del>	12,686	<del>12,809</del>	13,321
Salary Grade U 22.E	<del>8,817</del>	9,170	<del>12,652</del>	13,158	<del>13,286</del>	13,817
Applications Manager						
Salary Grade U 23.E	<del>9,097</del>	9,461	<del>13,110</del>	13,634	<del>13,766</del>	14,317
Government Relations Officer						
Principal Engineer						
Salary Grade U 24.E	<del>9,343</del>	9,717	<del>13,638</del>	14,184	<del>14,318</del>	14,891
Salary Grade U 25.E	<del>9,632</del>	10,017	<del>14,154</del>	14,720	<del>14,861</del>	15,455
Salary Grade U 26.E	<del>10,071</del>	10,474	<del>14,903</del>	15,499	<del>15,647</del>	16,273
Salary Grade U 27.E	<del>10,533</del>	10,954	<del>15,692</del>	16,320	<del>16,476</del>	17,135
Director of Administrative Services						
Director of Human Resources						
Director of Maintenance						
Director of Public Affairs						
Director of Recycling Operations						
Director of Water Operations						
Director of Water Resources						
Treasurer/Director of Risk Management						
Salary Grade U 28.E	<del>11,016</del>	11,457	<del>16,518</del>	17,179	<del>17,344</del>	18,038

Salary Grade U 29.E	<del>11,519</del>	11,980	<del>17,392</del>	18,088	<del>18,262</del>	18,992
Salary Grade U 30.E	<del>12,051</del>	12,533	<del>18,316</del>	19,049	<del>19,231</del>	20,000
Executive Director of Finance						
Executive Director of Engineering & Water Quality						
Executive Director of Operations						
Executive Director of Water Policy						
Salary Grade U 31.E	<del>12,651</del>	13,157	<del>19,355</del>	20,129	<del>20,322</del>	21,135
Salary Grade U 32.E	<del>13,285</del>	13,816	<del>20,457</del>	21,275	<del>21,480</del>	22,339
Salary Grade U 33.E	<del>13,945</del>	14,503	<del>21,618</del>	22,483	<del>22,699</del>	23,607
Salary Grade U 34.E	<del>14,645</del>	15,231	<del>22,845</del>	23,759	<del>25,270</del>	26,281
General Manager						

EXHIBIT "B"

RESOLUTION NO. 2018-

RESOLUTION OF THE BOARD OF DIRECTORS  
OF IRVINE RANCH WATER DISTRICT  
ADOPTING REVISED SALARY GRADE SCHEDULE FOR  
THE GENERAL EMPLOYEES UNIT AND NEW SALARY GRADE SCHEDULE FOR  
THE NON-EXEMPT SUPERVISOR UNIT

The Board of Directors of Irvine Ranch Water District, by adoption of Resolution No. 2017-16 on June 26, 2017, established schedules of positions and salary rate ranges of the Irvine Ranch Water District.

The Board of Directors of Irvine Ranch Water District has reviewed the Salary Grade Schedules for the General Employees Unit and the Non-Exempt Supervisor Unit and desires to make changes to the schedules of positions for the General Employees Unit and create a new schedule of positions for the Non-Exempt Supervisor Unit without change to the salary rate ranges.

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

Section 1. That Resolution No. 2017-16 adopted on June 26, 2017 was rescinded by Resolution No. 2018-\_\_\_\_, adopted June 25, 2018, effective July 1, 2018.

Section 2. That the revised General Unit Employees Salary Grade Schedule and the new Non-Exempt Supervisor Unit Salary Grade Schedule set forth in Schedule II to this Resolution, which provide for revised and new schedules of positions with no changes to the salary rate ranges for the General Employees Unit and the Non-Exempt Supervisor Unit of the Irvine Ranch Water District are hereby approved and adopted.

Section 3. That the provisions of this Resolution shall be effective July 1, 2018.

ADOPTED, SIGNED and APPROVED on June 25, 2018.

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

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

APPROVED AS TO FORM:  
LEWIS BRISBOIS BISGAARD & SMITH, LLP

By: \_\_\_\_\_  
District Counsel

**IRVINE RANCH WATER DISTRICT**  
**SALARY GRADE SCHEDULE**  
**General Employees Unit**  
**July 1, 2018**

SCHEDULE "II"

<b>NON-EXEMPT</b>	<b>MINIMUM</b>	<b>MAXIMUM</b>	<b>EXCEPTIONAL PERFORMANCE TOP OF RANGE</b>
Salary Grade 1.N	\$2,818	\$3,495	\$3,669
Salary Grade 2.N	\$2,879	\$3,590	\$3,770
Salary Grade 3.N	\$2,941	\$3,689	\$3,874
Salary Grade 4.N	\$2,994	\$3,796	\$3,986
Salary Grade 5.N	\$3,062	\$3,902	\$4,097
Salary Grade 6.N	\$3,123	\$4,015	\$4,215
Office Assistant Mail Coordinator			
Salary Grade 7.N	\$3,184	\$4,126	\$4,333
Salary Grade 8.N	\$3,255	\$4,245	\$4,457
Salary Grade 9.N	\$3,318	\$4,362	\$4,580
Salary Grade 10.N	\$3,385	\$4,480	\$4,703
Salary Grade 11.N	\$3,451	\$4,596	\$4,824
Maintenance Apprentice Material Control Clerk I Utility Worker			
Salary Grade 12.N	\$3,519	\$4,730	\$4,968
Salary Grade 13.N	\$3,585	\$4,866	\$5,109
Customer Service Specialist I Support Specialist			
Salary Grade 14.N	\$3,665	\$5,002	\$5,253
Salary Grade 15.N	\$3,744	\$5,137	\$5,394
Collection Systems Technician I Office Specialist			
Salary Grade 16.N	\$3,832	\$5,281	\$5,543
Accounting Clerk Customer Service Field Technician Laboratory Analyst Metering Systems Technician I Water Efficiency Field Technician Water Maintenance Technician I			
Salary Grade 17.N	\$3,914	\$5,411	\$5,681
Customer Service Specialist II			

Salary Grade 18.N	Material Control Clerk II Senior Support Specialist	\$3,999	\$5,558	\$5,835
Salary Grade 19.N	Development Services Specialist Purchasing Coordinator Senior Office Specialist	\$4,091	\$5,698	\$5,984
Salary Grade 20.N	Collection Systems Technician II Engineering Technician I GIS Technician I Operator I Senior Accounting Clerk	\$4,200	\$5,881	\$6,176
Salary Grade 21.N	Collection Systems CCTV Technician Customer Service Specialist III Senior Customer Service Field Technician <del>Senior Water Efficiency Field Technician</del>	\$4,319	\$6,059	\$6,364
Salary Grade 22.N	Facilities Services Technician Maintenance Mechanic Metering Systems Technician II <del>Public Affairs Assistant</del> Recycled Water Specialist Senior Purchasing Coordinator Vehicle/Equipment Mechanic Water Maintenance Technician II	\$4,438	\$6,250	\$6,564
Salary Grade 23.N		\$4,555	\$6,439	\$6,761
Salary Grade 24.N	Buyer Cross Connection Specialist <del>Public Affairs Assistant</del> Water Efficiency Specialist Water Resources Specialist Wetlands Specialist	\$4,684	\$6,641	\$6,973
Salary Grade 25.N	Engineering Technician II GIS Technician II Senior Collection Systems CCTV Technician Senior Collection Systems Technician	\$4,807	\$6,845	\$7,188
Salary Grade 26.N	Metering Systems Technician III Water Maintenance Technician III	\$4,955	\$7,049	\$7,400
Salary Grade 27.N	Accountant Senior Vehicle/Equipment Maintenance Mechanic	\$5,099	\$7,255	\$7,618

	Senior Facilities Services Technician Operator II Senior Maintenance Mechanic Senior Recycled Water Specialist			
Salary Grade 28.N		\$5,249	\$7,472	\$7,846
	Construction Inspector Automation Technician Landscape Contracts Administrator Electrical Technician Instrumentation Technician Scientist			
Salary Grade 29.N		\$5,405	\$7,689	\$8,072
	Senior Buyer Engineering Technician III GIS Technician III Senior Wetlands Specialist Operator III Lead Maintenance Mechanic Recycled Water Project Specialist Senior Water Efficiency Specialist Public Affairs Specialist			
Salary Grade 30.N		\$5,568	\$7,915	\$8,313
	Risk Analyst Senior Electrical Technician Senior Instrumentation Technician Environmental Compliance Specialist Graphic Design Specialist			
Salary Grade 31.N		\$5,732	\$8,155	\$8,561
	Information Services Coordinator Senior Construction Inspector Water Efficiency Analyst Payroll Administrator			
Salary Grade 32.N		\$5,898	\$8,395	\$8,815
	Wetlands Scientist Automation Specialist Process Specialist Senior Scientist Asset Maintenance Coordinator			
Salary Grade 33.N		\$6,070	\$8,639	\$9,071
	Operations Coordinator			
Salary Grade 34.N		\$6,250	\$8,878	\$9,323
	Electrical/Instrumentation Designer			
Salary Grade 35.N		\$6,438	\$9,144	\$9,602
<del>Salary Grade 1.E</del>		<del>\$4,532</del>	<del>\$5,824</del>	<del>\$6,114</del>
<del>Salary Grade 2.E</del>		<del>\$4,683</del>	<del>\$6,049</del>	<del>\$6,352</del>

**EXHIBIT "B-3"**

Salary Grade 3.E	\$4,834	\$6,275	\$6,589
Salary Grade 4.E	\$4,985	\$6,515	\$6,841
Salary Grade 5.E	\$5,137	\$6,756	\$7,095
Salary Grade 6.E	\$5,312	\$7,019	\$7,371
Salary Grade 7.E	\$5,483	\$7,278	\$7,641
Salary Grade 8.E	\$5,662	\$7,562	\$7,942
Salary Grade 9.E	\$5,833	\$7,840	\$8,230
Salary Grade 10.E	\$6,029	\$8,136	\$8,544
	Management Analyst		
	Assistant Engineer		
	Regulatory Compliance Analyst		
	Public Affairs Analyst		
	Asset Systems Analyst		
	Senior Public Affairs Specialist		
Salary Grade 11.E	\$6,222	\$8,437	\$8,860
Salary Grade 12.E	\$6,425	\$8,761	\$9,197
	Programmer/Analyst		
	Energy Analyst		
	Laboratory QA/QC		
	Treasury Analyst		
Salary Grade 13.E	\$6,631	\$9,080	\$9,532
	Right of Way Agent		
	Water Resources Planner		
Salary Grade 14.E	\$6,848	\$9,430	\$9,900
	Associate Engineer		
Salary Grade 15.E	\$7,065	\$9,782	\$10,269
	Automation Programmer		
Salary Grade 16.E	\$7,300	\$10,152	\$10,660
Salary Grade 17.E	\$7,534	\$10,524	\$11,050
Salary Grade 18.E	\$7,778	\$10,926	\$11,472
Salary Grade 19.E	\$8,023	\$11,330	\$11,897
Salary Grade 20.E	\$8,273	\$11,748	\$12,337
Salary Grade 21.E	\$8,526	\$12,173	\$12,783
Salary Grade 22.E	\$8,800	\$12,626	\$13,259
Salary Grade 23.E	\$9,079	\$13,085	\$13,738
Salary Grade 24.E	\$9,324	\$13,611	\$14,290
Salary Grade 25.E	\$9,612	\$14,126	\$14,831

**EXHIBIT "B-4"**



Salary Grade 26.E	\$10,050	\$14,872	\$15,615
Salary Grade 27.E	\$10,511	\$15,659	\$16,442
Salary Grade 28.E	\$10,994	\$16,485	\$17,309
Salary Grade 29.E	\$11,495	\$17,357	\$18,224
Salary Grade 30.E	\$12,027	\$18,277	\$19,192
Salary Grade 31.E	\$12,625	\$19,315	\$20,281
Salary Grade 32.E	\$13,258	\$20,415	\$21,436
Salary Grade 33.E	\$13,917	\$21,575	\$22,653
Salary Grade 34.E	\$14,615	\$22,799	\$23,937

**IRVINE RANCH WATER DISTRICT  
SALARY GRADE SCHEDULE  
Non-Exempt Supervisor Unit  
July 1, 2018**

NON-EXEMPT	MINIMUM	MAXIMUM	EXCEPTIONAL PERFORMANCE TOP OF RANGE
Salary Grade S 26.N	\$4,967	\$7,063	\$7,416
Salary Grade S 27.N	\$5,110	\$7,270	\$7,634
Salary Grade S 28.N	\$5,259	\$7,486	\$7,862
Salary Grade S 29.N	\$5,415	\$7,704	\$8,089
Salary Grade S 30.N	\$5,580	\$7,932	\$8,329
Collection Systems Supervisor			
Salary Grade S 31.N	\$5,745	\$8,171	\$8,579
Cross Connection Supervisor			
Facilities Services Supervisor			
Fleet Supervisor			
Salary Grade S 32.N	\$5,910	\$8,412	\$8,833
Collection Systems Supervisor			
Mechanical Services Supervisor			
Salary Grade S 33.N	\$6,082	\$8,657	\$9,090
Water Maintenance Supervisor			
Salary Grade S 34.N	\$6,263	\$8,896	\$9,342
Construction Inspection Supervisor			

Automation Supervisor

Electrical Supervisor

Instrumentation Supervisor

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Salary Grade S 35.N

\$6,452

\$9,163

\$9,622

Operations Supervisor

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June 25, 2018

Prepared by: Alex Aguilar

Submitted by: Rob Jacobson/Cheryl Clary

Approved by: Paul A. Cook

CONSENT CALENDAR:

FY 2018/19 OPERATING BUDGET  
VENDOR EXPENDITURE COMMITMENTS GREATER THAN \$100,000

SUMMARY:

Each year, following Board approval of the District's operating budget, staff initiates or renews commitments with vendors for certain products and services included in the approved budget. Staff has provided a list of those vendors with expected commitments totaling \$100,000 or greater in fiscal year (FY) 2018/19 for the Board's review. The list of vendor commitments excludes contracts/agreements which have been previously approved by separate Board action. Consistent with provisions included in the District's *Policy Regarding Authorization of Expenditures*, staff recommends that the Board approve the list of vendor expenditure commitments greater than \$100,000 for FY 2018/19.

BACKGROUND:

On an annual basis, the Board approves the fiscal year operating budget for the District for the upcoming year. Included in the operating budget are expenditures for line items such as chemicals, fuel, hauling of biosolids, and other products and services which result in commitments greater than \$100,000. These expenditures typically utilize cooperative agreements for best pricing when applicable, or have been previously competitively bid and in some cases are for products (e.g. certain chemicals) provided by a single supplier.

These commitments are structured as open purchase orders and typically consist of multiple individual transactions during the fiscal year with the cumulative total of the purchase order exceeding \$100,000. The approval structure allows staff to order goods and services on a regular and efficient basis during the fiscal year. These commitments are a "not to exceed" amount and can be cancelled at any time.

A list of the planned vendor commitments exceeding \$100,000 for FY 2018/19 is attached as Exhibit "A". The list includes vendor names, descriptions of the products or service being provided, the basis for pricing, (e.g. cooperative agreement, single source, etc.) and estimated annual expense. Excluded from this list are contracts in excess of \$100,000 which have been previously approved by separate Board action and are within their approved contract period; as well as recurring utility bills.

The total planned expenditure amount for the listed vendors for FY 2018/19 is \$2,723,930, representing approximately 1.7% of total planned expenditures in the approved operating budget. Consistent with provisions included in the District's *Policy Regarding Authorization of Expenditures*, staff recommends that the Board approve the list of vendor commitments greater than \$100,000 for FY 2018/19.

FISCAL IMPACTS:

Total planned expenditures for FY 2018/19 for vendor commitments greater than \$100,000 (excluding contracts/agreements approved by separate Board action) are \$2,723,930, representing approximately 1.7% of total planned expenditures in the approved FY 2018/19 operating budget.

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 Finance and Personnel Committee on June 5, 2018.

RECOMMENDATION:

THAT THE BOARD APPROVE THE LIST OF VENDOR COMMITMENTS GREATER THAN \$100,000 BASED ON APPROVED FY 2018/19 OPERATING BUDGET EXPENDITURES.

LIST OF EXHIBITS:

Exhibit “A” – FY 2018/19 Operating Budget - Vendor Commitments Greater than \$100,000

Exhibit "A"

FY 18/19 OPEN PO CONTRACTS OVER \$100K

VENDORS	SERVICES	PO#	Requester	Dept	TYPE	TIME		PO Amt
Athens Services	OPEN PO TO SUPPLY SCREENINGS AND GRIT REMOVAL FROM MWRP; DELIVERY METHOD: ATHENS TRUCK SERVICE.	602199	J. Perez	550	Cooperative Agreement (SOCWA)	Annual	MR	\$ 115,000
Merrimac Petroleum, Inc.	OPEN PO FOR UNLEADED GASOLINE AND DIESEL MOTOR FUEL	605916	J Dayer	870	Cooperative Agreement (County of Orange)	Year 1 of 5	JM	\$ 400,000
Olin Corporation	OPEN PO TO SUPPLY MWRP WITH SODIUM HYPOCHLORITE 12.5% FOR EFFLUENT DISINFECTION DELIVERIES. DELIVERY METHOD: BULK, VOL 4500-5000 GAL.	520011	J Perez	550	Cooperative Agreement (SOCWA)	Annual	MR	\$ 375,000
Olin Corporation	OPEN PO FOR BULK SODIUM HYPOCHLORITE 12.5% (#105004 NSF APPROVED) SOCWA CONTRACT PRICE - \$0.554/GALLON	530985	D Paulson	420	Cooperative Agreement (SOCWA)	Annual	SB	\$ 175,000
Aqua Ben Corp	OPEN PO FOR HYDROFLOC 860 BULK SHIPMENTS FOR LAWRP BULK SHIPMENT IS APPROX 4,200 GAL @ 10.34 LB/GAL = 43,428 LBS. EST @ \$0.72/LB DELIVERED.	602189	V. Cady	590	Single Source	4 Years	MR	\$ 209,000
BioMagic Inc.	OPEN PO FOR ODOR CONTROL CHEMICAL DELIVERIES (BIOMAGIC 250 - @5.85 PER GALLON) FOR COLLECTIONS LIFT STATION AND ODOR CONTROL INJECTION FACILITIES	602203	H. Solis	570	Single Source	7 Years	MR	\$ 225,000
Brentagg Pacific Inc.	OPEN PO FOR CITRIC ACID; 50% AT BAKER WATER TREATMENT PLANT	604139	K. Reideler	420	Single Source	1 Year	SB	\$ 216,000
Chem Tech International Inc.	OPEN PO FOR CL-50 CORROSION CONTROL (\$15.36/GALLON) TO SGU AND PAP SITES	602238	D.Paulson	420	Single Source	5 Years	SB	\$ 165,000
Chem Tech International Inc.	OPEN PO TO PROVIDE SODIUM HYPOCHLORITE 12.5% MINI-BULK DELIVERIES (\$1.47/GALLON) TO DATS FACILITY	533310	B Clinton	420	Single Source	5 Years	SB	\$ 150,000
Culligan of Santa Ana	OPEN PO FOR RESIN EXCHANGE SERVICE AT BAKER WATER TREATMENT PLANT	604140	K Reideler	420	Single Source	1 Year	SB	\$ 160,000
Enterprise Rideshare	OPEN PO FOR ENTERPRISE RIDESHARE FOR 22 VAN POOL LEASES; IRWD BILLING# 17128216	603051	Y Margo	130	Single Source	2 Years	CP	\$ 213,930
Hill Brothers Chemical	OPEN PO FOR THE DELIVERY OF ODOR CONTROL PRODUCT (OXY-CAN) TO HATS DIVERSION SITE. UNIT PRICE \$3.05/GAL, MINIMUM 300 GAL DEL. FUEL SURCHARGE \$20.	530779	H Solis	570	Single Source	7 Years	MR	\$ 220,000
Summit Chemical Specialty Prodcuts	OPEN PO FOR BULK SUMACLEAR 1000 ALUMINUM CHLOROHYDRATE 50% AT BAKER WATER TREATMENT PLANT	604146	K Reideler	420	Single Source	1 Year	SB	\$ 100,000
<b>Total</b>								<b>\$ 2,723,930</b>

Note: All goods and services are included in the approved FY 2018-19 operating budget.

June 25, 2018

Prepared and

Submitted by: C. Clary

Approved by: Paul A. Cook



CONSENT CALENDAR

REIMBURSEMENT TO BOARD MEMBER FOR BUSINESS EXPENSES

SUMMARY:

The District's Expense Policy provides, in part, that expense reports submitted for reimbursement by members of the Board are subject to approval by two Board members if submitted to the report reviewer within 60 days after the expenses were paid or incurred. Expense reports submitted outside of this period require approval by the full Board of Directors in order to receive reimbursement. Staff recently received expense reports from Director Peer Swan covering October 2017 and February – March 1, 2018, which requires the approval by the full Board in order to receive reimbursement.

BACKGROUND:

Director Swan has submitted the following expense reports for approval and reimbursement (Exhibits "A" and Exhibit "B"):

Time Period & Purpose	Total Expense Requested	Amount Advanced by District	Balance Due to Director Swan
October 3, 2017 – expenses related to repairing Apple iPad.	\$ 313.09	\$ 0.00	\$ 313.09
February 2018 mileage and tolls - various meetings	143.39		143.39
February 7-9, 2018 expenses, mileage, and tolls - Urban Water Institute Conference, Palm Springs	428.48		428.48
February 15, 2018 expenses, mileage, and tolls - ACWA Energy Committee Meeting, Sacramento	662.39		662.39
February 25-March 1, 2018 expenses, mileage, and tolls – CASA & ACWA Annual Washington D.C. Conference	2,810.28		2,810.28
<b>Total</b>	<b>\$ 4,357.63</b>	<b>\$ 0.00</b>	<b>\$ 4,357.63</b>

FISCAL IMPACTS:

Approval of expenses is requested for a total of \$4,357.63, of which the District advanced \$0.00. Subject to Board approval, the amount of \$4,357.63 will be reimbursed to Director Swan for travel expenses and iPad repair relating to District business for Oct 2017 and February – March 1, 2018.

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.

RECOMMENDATION:

THAT THE BOARD APPROVE THE EXPENSE REPORTS SUBMITTED FOR REIMBURSEMENT INCURRED BY DIRECTOR PEER SWAN.

LIST OF EXHIBITS:

Exhibit “A” – Expense Report for February 2018 (limited distribution)

Exhibit “B” – Expense Report for October 2017 (limited distribution)

Exhibit “A” and Exhibit “B” provided under separate cover by the  
District Secretary.



June 25, 2018

Prepared by: R. Lao

Submitted by: F. Sanchez / P. Weghorst *PMW*

Approved by: Paul A. Cook *ca PC*

## CONSENT CALENDAR

### PRETREATMENT PROGRAM DEVELOPMENT AND IMPLEMENTATION CONSULTANT SELECTION

#### SUMMARY:

IRWD's pretreatment programs for the Michelson Water Recycling Plant (MWRP) and the Los Alisos Water Recycling Plant (LAWRP) are currently implemented by the Orange County Sanitation District (OCSD) and the South Orange County Wastewater Authority (SOCWA), respectively. Staff reviewed a plan to transition to an in-house pretreatment program with the Engineering and Operations Committee on January 16, 2018. In accordance with this plan, staff solicited and reviewed consultant proposals for the development and implementation of an IRWD pretreatment program. After having completed a thorough review of the proposals that were received, staff recommends that the Board authorize the General Manager to execute a Professional Services Agreement with EEC Environmental (EEC) to develop and implement a pretreatment program in the amount of \$140,580.

#### BACKGROUND:

Both MWRP and LAWRP operate under National Pollutant Discharge Elimination System (NPDES) permits for the treatment of sewage, the production and distribution of recycled water and the discharge of effluent to ocean outfalls. Pursuant to federal regulations, IRWD is required to implement a pretreatment program that is intended to:

- Protect sewage treatment plants from interference or upset of treatment operations;
- Prevent pass-through of pollutants;
- Prevent harm to collections system or sewage treatment plant infrastructure;
- Protect biosolids quality; and
- Protect public health, safety and the environment.

Currently, IRWD does not implement its own pretreatment program. OCSD operates a pretreatment program on behalf of IRWD for the sewersheds that are both tributary to MWRP and to OCSD sewage treatment facilities. This program is implemented in accordance with a Memorandum of Understanding (MOU) executed with OCSD in 1987. SOCWA is the permit holder for the NPDES permit regulating LAWRP discharges to the Aliso Creek ocean outfall, and accordingly SOCWA operates a pretreatment program in IRWD's sewershed that is tributary to LAWRP.

It is important that IRWD implement its own pretreatment program within the sewersheds that are tributary to MWRP for the following reasons:

- To protect the quality and end uses of biosolids products that will be produced at the Biosolids and Energy Recovery Facility;
- To protect IRWD's recycled water quality and end uses;

- To protect IRWD's ability to discharge its recycled water into storage reservoirs;
- To meet new and increasingly more stringent water quality objectives;
- To meet enhanced source control program requirements that could be imposed on IRWD should it pursue a potable reuse project; and
- To respond in a timely manner to compliance, health and safety issues associated with customers discharging into the collection system.

#### Pretreatment Development and Implementation:

In order to implement its own pretreatment program, IRWD must obtain approval from the Santa Ana Regional Water Quality Control Board of pretreatment design documents such as an Administrative Procedures Manual, an Enforcement Response Plan and an Industrial Waste Survey. Prior to implementing the program, IRWD must also modify its Rules and Regulations for Sewer Use, update the 1987 MOU with OCS, procure resources such as software for the implementation of the pretreatment program, perform industry and city outreach, and modify its website.

#### *Need for Consulting Services:*

A May 2017 evaluation of the IRWD pretreatment program that was performed by Larry Walkers & Associates (LWA), recommended the use of an experienced consultant to expedite the preparation of the required documents and to establish the structure of IRWD's pretreatment program. It was recommended that the consultant also provide support to staff on an as-needed basis in implementing the program, including assisting with reviewing and/or preparing wastewater discharge permits, performing inspections and monitoring as well as conducting enforcement activities. In addition, it was recommended that the consultant provide ancillary on-the-job training that may be required to ensure that staff have proper certifications and experience to implement the program.

#### Consultant Selection:

In January 2018, staff presented a plan to the Engineering and Operations Committee for the transition to IRWD's own in-house pretreatment program. One of the key tasks listed in the plan was to issue a Request for Proposal (RFP) from qualified firms to assist with the development and implementation of the pretreatment program. An RFP for Pretreatment Program Development and Implementation services was issued to 13 firms on April 5, 2018. Of the 13 firms, only LWA and EEC submitted proposals.

Staff has completed a thorough review of the two proposals and the qualifications of each of the proposed teams. As a result of this review, staff recommends the selection of EEC for the development and implementation of IRWD's pretreatment program. A copy of the consultant selection matrix is provided as Exhibit "A". A copy of EEC's scope of work and fee proposal is presented as Exhibit "B". Key strengths of the EEC proposal are as follows:

- The EEC project management team is skilled in developing and implementing municipal pretreatment programs;
- A demonstrated strong understanding of the current state of the IRWD pretreatment program, along with a thorough understanding of the OCSD pretreatment program;
- Familiarity with the IRWD's service area and an established and strong working relationships with OCSD and local regulators;
- Experience with outreach campaigns, educational materials and information to deliver an effective message to regulated industries; and
- An effective approach to training IRWD staff that is designed to successfully balance enforcement and education while emphasizing good working relationships with regulated industries.

As a result of staff's proposal review process, staff recommends that the Board authorize the General Manager to execute a Professional Services Agreement with EEC in the amount of \$140,580.

FISCAL IMPACTS:

The total cost of EEC's two-year effort is \$140,580 and considered by staff to be fair and reasonable. The cost for the first year of the pretreatment program development and implementation will be \$87,900 and adequate funds exist in the FY 2018-19 Operating Budget to cover these costs. Funding in the amount of \$52,680 for the second year of the program development and implementation will be requested in the FY 2019-20 Operating Budget.

ENVIRONMENTAL COMPLIANCE:

This item is not a "project" as defined in the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15378. The District is required to implement a pretreatment program pursuant to Section 307 of the Federal Clean Water Act and Parts 35 and 403 of Title 40, Code of Federal Regulations (40 CFR 35 and 40 CFR 403); and/or Section 2233, Title 23, California Code of Regulations.

COMMITTEE STATUS:

This item was reviewed by the Engineering Operations Committee on June 19, 2018.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH EEC ENVIRONMENTAL TO DEVELOP AND IMPLEMENT A PRETREATMENT PROGRAM IN THE AMOUNT OF \$140,580.

LIST OF EXHIBITS:

Exhibit "A" – Consultant Selection Matrix

Exhibit "B" – EEC Environmental Scope of Work and Fee Proposal

**EXHIBIT "A"  
CONSULTANT SELECTION MATRIX**

**Pretreatment Program Evaluation Consultant Selection Matrix**

Item	Description	Weights	LWA	EEC	
A	<b>TECHNICAL APPROACH</b>	<b>45%</b>			
1	Adherence to RFP Requirements	10%	2	1	
2	Understanding of required services and project details	25%	2	1	
3	Approach and Methodology	45%	2	1	
4	Schedule	20%	1	2	
	<b>Weighted Score (Technical Approach)</b>		1.80	1.20	
B	<b>QUALIFICATIONS AND EXPERIENCE</b>	<b>45%</b>			
1	Project Manager	20%	2	1	
			Gorman Lau, 15 yrs	Najib Saadeh, 20 yrs John Shaffer, 25 yrs	
2	Technical Leads	30%	2	1	
			Betsy Elizufon, 30 yrs Aline C., 9 yrs and Suzanne Brown, 4yrs	Keith Silva, 40 yrs Joe Jenkins, 10+ years	
3	Project Team Experience (sub and prime)	30%	2	1	
4	Firm's Relevant Experience	10%	2	1	
5	Project Team Availability	10%	2	1	
	<b>Weighted Score (Experience)</b>		2	1	
C	<b>COST</b>	<b>10%</b>	<b>2</b>	<b>1</b>	
	<b>COMBINED WEIGHTED SCORE</b>		1.91	1.09	
<b>Ranking of Consultants</b>					
TASK		Task Hours	FEE	Task Hours	FEE
1	Project Management and Meetings	228	\$47,240	58	\$11,160
2a	Pretreatment Program Documents: Industrial Survey	44	\$7,500	30	\$5,610
2b	Pretreatment Program Documents: Templates, Admin. Procedures Manual & Comments	244	\$46,200	114	\$21,540
2c	Pretreatment Program Documents: Enforcement Response Plan	32	\$6,420	40	\$7,560
3a	Modification of Sewer Rules and Regulations	70	\$14,360	36	\$7,260
3b	Modification of MOU	84	\$16,940	30	\$5,820
4	Resource Identification and Procurement	102	\$19,350	52	\$10,080
5	Industry/City Outreach Efforts	120	\$23,900	59	\$11,130
6	Website Modifications	44	\$7,900	40	\$7,740
7	Pretreatment Program Implementation (Year 2)	336	\$67,100	276	\$52,660
	<b>SUB-TOTAL ENGINEERING SERVICES, FEES (Does Not Include Optional Items)</b>	<b>1,304</b>	<b>\$258,810</b>	<b>739</b>	<b>\$140,580</b>
	<b>TOTAL ENGINEERING SERVICES, FEE</b>	<b>1,304</b>	<b>\$258,810</b>	<b>739</b>	<b>\$140,580</b>
	Does not include optional tasks	Avg \$/hr	\$197		\$190
D	<b>OTHER</b>				
	<b>Miscellaneous Items</b>				
	Multiplier		No		No
	Conflict of Interest		No		No
	Joint Venture		No		No
	Scope of Work Exclusions		No		No
	Exceptions taken to IRWD Std. Contract		No		No
	Insurance (Professional & General Liability)		Yes		Yes
	***Where 1 = Best and 2 = Worst; Lowest score is the best				

# Exhibit "B"

## Scope of Work

### Task 1

## Program Management and Meetings

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### Project Management

Najib Saadeh will serve as the Program Manager and will be the main point of contact for the pretreatment program development and implementation. The EEC Program Manager will communicate and coordinate with IRWD's Project Manager and staff, prepare status progress reports (technical, schedule, budgets), direct procurement tasks, coordinate training, and direct stakeholder engagement. Mr. Saadeh has already managed a critical project for IRWD consisting of a local limits technical evaluation and has extensive experience on large pretreatment projects for many municipalities including the Orange County Sanitation District (OCSA), the Santa Ana Water Powers Authorities (SAWPA), County of Ventura District 1 and others.

EEC Program Manager will attend all regularly scheduled status calls and meetings. It is anticipated that weekly meetings will be held to discuss the status of various tasks and/or for discussions regarding a specific topic. Mr. Saadeh has managed numerous large client portfolios and programs during his career which included budget and schedule tracking on a large number of projects and tasks for several clients.

### Quality Control/Quality Assurance

As part of project management, a quality assurance/quality control (QA/QC) process will be implemented at every step of the project. The process includes periodic reviews at pre-determined stages during the planning and execution phases.

Mr. Saadeh will ensure that all the required elements are effectively incorporated into the project. John Shaffer, principal-in-charge, will ensure that the project manager is routinely performing this verification.

All reports and presentations will be reviewed by the project manager and the principal-in-charge for content and format. In addition, draft and final reports, as well as presentations, will be edited by EEC's in-house technical editor.

To ensure effective budget control, the project manager has created a budget based on experience with similar projects and a thorough review of the information provided in the RFP. In order to control the budget in the project implementation phase, the project manager will continually compare the budget with actual expenditures and note any discrepancies. In situations where a particular task's cost might rise above the amount accounted for in the original budget, the variation will be noted and discussed with the IRWD's project manager. Conversely, there may be some savings on a task because it required less effort than originally expected; this variation will also be noted and discussed with IRWD. Additionally, EEC has developed a formal QA/QC system to ensure timely and efficient delivery of the tasks involved in a project.

A quality control plan (QCP) will be prepared and implemented. The QCP establishes the requirements of the project and includes technical areas of responsibility for each staff member. The project manager will

serve as the single point of contact and liaison for all work required. In addition, the procedures that will be employed to ensure compliance with appropriate laws, regulations, policies, and technical review protocols will be identified. All work will be accomplished with adequate internal controls and review procedures to eliminate conflicts, errors, and omissions to ensure the technical accuracy of the work for the project. The QCP will include all activities appropriate for managing the quality of the project based on the anticipated planning and complexity of the project features.

EEC will prepare a quality assurance project plan (QAPP). The QAPP is a formal document describing in comprehensive detail the necessary QA/QC and other technical activities that should be implemented to ensure that the results of the work performed would satisfy the stated performance criteria. The QAPP provides data specifications for all anticipated analyses and tables comparing the detection limits to the relevant regulatory level, and establishes procedures for data review and assessment. The QAPP also outlines a clear document preparation process, including development of an annotated outline to final senior review and technical editing. The QAPP has become an instrumental system that has resulted in the highest quality work product for EEC's clients.

At the beginning of the project, EEC will finalize the Microsoft Project schedule submitted as part of this proposal and developed to track milestones for deliverables and other critical project tasks. As the project progresses, the schedule will be updated and adjusted to the changing conditions of the project.

EEC uses the most up-to-date software and hardware to track, coordinate, and invoice projects. Each project is given a specific project number in EEC's project management program. All project time is recorded and tracked through electronic timesheets that require a description of work performed so that the IRWD can view exactly what tasks EEC staff members have accomplished. Project managers can track day-to-day costs up to the moment and adapt specific project tasks to accommodate client needs.

EEC's engineers and project managers meet on a regular basis to discuss and manage project schedules. Project schedules are also managed using specific software, such as Microsoft Office Project, where all project tasks and timelines are constantly updated, allowing project managers to quickly and efficiently address any sudden changes.

## Task 2

### Pretreatment Program Development Documents

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In developing IRWD's pretreatment program, EEC will include the following six elements. These elements parallel the pretreatment compliance schedule activities specified in most POTWs' NPDES permits.

1. Industrial Waste Survey – To identify and evaluate the nondomestic discharges to IRWD's treatment system.
2. Legal Authority – To ensure that IRWD operates under a legal authority that will enable it to apply and enforce the requirements of the General Pretreatment Regulations and any other State or local rules needed to control non-domestic discharges.
3. Technical Elements/Local Limits – To protect the operation of its treatment plant, the quality of its receiving water and the quality of its sludge, IRWD must characterize discharges to its treatment system and establish local effluent limits. In 2016, EEC completed a technical evaluation and developed local limits for IRWD.

4. Compliance Monitoring – Procedures must be developed and implemented for monitoring its industrial users to determine compliance and noncompliance.
5. Procedures – Administrative procedures must be developed for the implementation of the pretreatment program.
6. Resources – Sufficient and adequate resources (funds, equipment, and personnel) must be secured in order to operate an effective and sustainable program.

In particular, EEC will develop all basis elements for a robust pretreatment program and will provide training on all program elements. Such elements include procedures for conducting an industrial waste survey, determining all applicable industrial categories, issuing IU permits, enforcing all applicable permit conditions (categorical standards, local limits and general prohibitions) in accordance with the Enforcement Response Plan developed by EEC. EEC will provide all necessary support in addressing any comments the Regional Board may have on any of the pretreatment program elements.

Specific to the 1987 Memorandum of Understanding (MOU) between IRWD and OCSD, EEC will provide all necessary support and will assist with negotiations with OCSD in order to modify the MOU to reflect the new arrangement between IRWD and OCSD.

### **Industrial Waste Survey**

EEC will utilize the tools available to conduct surveys to identify industrial facilities within IRWD's service area. Examples of tools include business licenses, changes in sewer service, new tenant improvements and field observations. EEC will develop a Master Industrial User Tracking List and will track deletions and additions on the list. Based on the type and size of the business, EEC will determine if industrial facilities on the list are potentially categorical and/or significant industrial users.

### **Legal Authority**

EEC will ensure that IRWD is operating pursuant to legal authority which enables it to apply and to enforce the requirements of its newly developed pretreatment program. EEC will assess the best strategy to contain such authority, whether in a statute, ordinance, or contracts (memorandum of understanding) and will do so in accordance with 40 CFR 403.8 (f) (1).

Regardless of the recommended strategy, EEC will ensure that IRWD has the legal authority to enable it, ultimately, to protect its wastewater treatment and recycling, maintain compliance with its NPDES permit, protect its personnel and avoid any negative impact to its biosolids management practices. More specifically, EEC will ensure that IRWD has the authority to:

- a. Control new or increased contributions of pollutants from IUs in situations where IU effluent does not meet applicable Pretreatment Standards and Requirements or where such contributions cause harm to IRWD's treatment and recycling processes.
- b. Require IU's compliance with all applicable categorical limits, local limits and Pretreatment Standards and Requirements, and
- c. Control, by issuing IU permits, the contribution to IRWD's treatment system to ensure compliance with all applicable conditions.

### **Technical Elements/Local Limits**



In 2016, EEC completed its technical evaluation of IRWD's local limits. The evaluation involved the re-determination of the Pollutants of Concern, an evaluation of wastewater sampling data for suitability and applicability, a re-determination of the treatment plant removal efficiencies, the re-calculation of Maximum Allowable Headworks Loadings (MAHLs), a determination of the methods of allocation, and a resulting re-determination of the local limits.

The 2017 local limits evaluation was conducted in accordance with EPA's guidance and resulted in defensible local limits. In order to facilitate future local limits evaluations, EEC provided recommendations to IRWD to address data gaps through more comprehensive and better targeted monitoring in the future and to improve the empirical foundation of subsequent local limits evaluations.

## **Compliance Monitoring**

Compliance monitoring encompasses a range of techniques that EEC would train the IRWD staff on. With the goal of providing assistance to enhance IU's compliance, EEC will develop a compliance monitoring program for the review of self-monitoring data and for on-site compliance evaluation.

EEC will develop and implement an inspection and monitoring program, independent of information supplied by IUs, to determine compliance or noncompliance with IRWD's pretreatment standards and requirements. The program elements will include compliance sampling, compliance inspections, requesting, receiving and analyzing reports as well as slug discharge control plans (if required).

## **Procedures**

EEC will identify and assist IRWD with the development of procedures (documented in standard operating procedures [SOPs]) that are necessary for managing an industrial pretreatment program. This is a requirement under 40 CFR 403.8 (f)(2). Examples of SOPs that EEC would develop include:

- Conducting Industrial Waste Surveys
- Issuing and Managing Permits
- Conducting Sampling
- Industrial User Inspections

EEC's approach to maximizing the benefits of SOPs consists of developing well-written SOPs that facilitate training. Furthermore, people tend to be supportive of the things they help create. Therefore, involving employees in developing SOPs can help assure the final product is more complete, useful and accepted. Well-written SOPs facilitate training (and cross training) and is an excellent reference document on how a task is done, whether it involves sampling, permitting, inspecting or responding to an audit by the Regional Water Quality Control Board.

## **Resources**

As required under 40 CR 403 ( f)(3), IRWD is required to have sufficient resources and qualified personnel to operate its pretreatment program. Similarly to EEC's support for Salt Lake City and more recently, to Santa Ana Water Powers Authority (SAWPA), EEC will assess the resources needed and will assist in identifying competent and knowledgeable staff with pretreatment expertise. Most importantly, EEC will ensure that the staff is knowledgeable in issuing and renewing IU control mechanisms (permits) to control



the discharges from nondomestic dischargers.

### **Dental Mercury**

Dental offices discharge mercury present in amalgam used for fillings and this is being addressed by many pretreatment programs. EEC will discuss with IRWD developing a dental mercury program as part of the Pretreatment Program.

## **Task 3**

### **Modification of Sewer Rules and Regulations and Memorandum of Understanding**

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The changes to the boundaries of IRWD service area, alone, would trigger a revision of its Sewer Rules and Regulations that serve as its Sewer Use Ordinance (last revised 12/2011). Also, as stated in the RFP, the analysis conducted by IRWD confirmed that there are a number of required and recommended changes that need to be made.

In addition to the required revisions for the Sewer use Ordinance to comply with 40 CFR Part 403, EEC will recommend changes that should be made based on development of the pretreatment program.

In addition, the MOU will need to be updated to reflect the changes in the responsibilities for pretreatment. The necessary coordination with OCSD will be seamless considering the established good relationship between OCSD and EEC.

#### **Modification of Sewer Rules and Regulations**

In addition to revising existing sections of IRWD's Sewer Use Ordinance, EEC will add sections to set uniform requirements for IUs of IRWD's sewerage facilities and enables IRWD to comply with all applicable state and federal laws, including the Clean Water Act (33 United States Code [U.S.C.] section 1251, et seq.) and the General Pretreatment Regulations (Title 40 of the Code of Federal Regulations [CFR] Part 403). The revised Ordinance shall be interpreted in accordance with the definitions set forth in Section 102.

#### **Modification of Memorandum of Understanding**

In order to reflect the new arrangement between IRWD and OCSD, modification of the MOU is necessary, in particular, for the pretreatment requirements and the sanitary sewer systems requirements and to a lesser extent, for the biosolids disposal requirements.

Regarding pretreatment requirements, the MOU must reflect the implementation of IRWD's pretreatment program. For the sewer section under IRWD's jurisdiction, IRWD would have the responsibility for enforcement and administration of its pretreatment program through its own Enforcement Management System (ERP) which EEC would make sure it is in compliance with the Federal Pretreatment Regulations in 40 CFR 403 and of the same caliber as OCSD's.

Statewide General Waste Discharge Requirements for Sanitary Sewer Systems require that IRWD develop

sanitary sewer management plans (SSMPs) and report all sanitary sewer overflows (SSOs). These requirements apply to all public agencies that own or operate sanitary sewer systems with greater than one mile of pipes. The requirements also include the operation and maintenance of collection systems and the reporting and mitigating of sanitary sewer overflows. Currently, EEC performs FOG inspections at Food Service Establishments (FSEs) and support in plan checks for grease interceptors and, as previously performed for many agencies, and currently for Ventura County District 1, EEC can develop and implement an SSMP and reflect all these activities in a modified MOU.

Biosolids Disposal Requirements are addressed in the MOU and EEC would reflect any changes in the handling and disposal of the biosolids in the modified MOU.

## Task 4

### Resource Identification and Procurement

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EEC's approach to resource identification and procurement will start with a review of the gap analysis performed by IRWD which identified the resources that will be necessary for IRWD to implement its own pretreatment program.

Multiple skills and tasks are required by a pretreatment program and EEC will assist IRWD in identifying and procuring the additional resources that will be needed. Based on EEC's experience in assisting agencies with new pretreatment programs, as expected, in general, strong programs tend to have technically-skilled staff, adequate resources, good information on their industrial users, and proactive and positive relationships with the FSEs and industrial users.

Even successful programs face challenges in trying to make their programs more effective. Most programs face challenges in cost accounting and budgeting. Also, without good information, program coordinators have a difficult time making efficient decisions, demonstrating the value of pretreatment throughout their jurisdiction or convince the IUs' to invest resources for pollution prevention or improved pollution controls.

Activities that EEC will perform to ensure that IRWD has adequate resources include the following:

- EEC will first perform a gap analysis to identify the needed additional resources whether in personnel, expertise or equipment.
- Training program for staff and the resources available for training activities. These include training using the same approach and material that EEC used in the recent training for over one hundred pretreatment coordinators in Northern California. EEC also presents on FOG and conducts FOG training. In addition, EEC recommends that staff members with pretreatment and FOG control responsibility attend CWEA conferences.
- Develop, or if already in-place, improve on a comprehensive on-line repository of all EPA guidance documents.
- On-line database on pollution prevention opportunities for core discharging industries, and improved data management systems within programs. EEC is very familiar with many software

for compliance tracking and will assist IRWD with fully utilizing its current software or, if necessary, identifying the best option for managing data and tasks for its pretreatment program.

- EEC will assist the new staff members with pretreatment and FOG control responsibility to successfully balance enforcement and education. EEC believes that a good working relationship is needed between pretreatment program staff and IUs in order to identify and solve discharge problems.
- In addition to software, EEC will assess the need for various equipment for monitoring industrial users. EEC will recommend equipment such as automatic samplers for monitoring IUs and tablets or tough books computers for facilitating and documenting site inspections. In addition to its recommendations, EEC will present the associated advantages and disadvantages for each option.

## Task 5

### Industry/City Outreach Efforts

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EEC will lead the efforts of organizing outreach effort and assisting IRWD by developing outreach materials for the industries and cities, and in organizing and participating in meetings as necessary. Outreach activities, as IRWD begins to implement its own pretreatment and FOG program, is essential to guarantee the success of the program. This includes planning and hosting public meetings.

Outreach activities for the current industrial permitted dischargers are different in nature than those targeting the cities within IRWD's service area. For example, outreach to the public can be spread when partnering with other public agencies, such as the police department or the fire department. For the cities, outreach activities are focused on specific functions, such as engineering departments or building departments, for raising awareness around FOG-related challenges.

EEC has provided planning and organizing support for outreach campaigns as well as educational materials and information to assist many municipalities to deliver clear and effective messages to the IUs and FSEs. EEC will prepare binders to provide the FSEs with all the necessary outreach materials to ensure they are fully aware of the program requirements and can maintain consistent compliance.

Creating material specific to IRWD would not require a major effort by EEC staff. It will also include FAQ's in anticipation of questions from the public as well as from IU and FSE owners.

## Task 6

### Website Modifications

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Websites are effective tools in educating the public as well as the regulated community and EEC considers websites as important tools in the outreach program.

EEC will assist in the required modifications to IRWD's website. EEC will supply information and forms for new and current IUs such as new permit applications, permit renewal applications and Q&A's will alleviate some of the work load on IRWD's staff and will allow staff members to focus on more critical tasks.

Specific to the FOG program, EEC will provide, for website modifications, the same information supplied to FSE's including outreach and educational materials as well as Best Management Practices (BMP) that promote the importance of kitchen BMPs to the FSE community as well as to the public.

## Task 7

### Pretreatment Program Implementation

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The second year, or possibly sooner, after the development of all activities and regulatory approvals are received from the IRWD Board of Directors and the Regional Water Quality Control Board, EEC will assist IRWD staff in the implementation of the pretreatment program.

At the beginning, one of EEC's team members, either Najib Saadeh or Joseph Jenkins, will assume the role of lead pretreatment coordinator. This would entail implementing all aspects of the pretreatment program, including but not limited to, inspections, permitting, self-monitoring report review, enforcement, data entry, sampling, regulatory reporting, and serve as the contact for any regulator inspections and/or audits. Currently, EEC is under contract to assume that same role for the City of El Segundo and Joseph Jenkins is the lead pretreatment coordinator with Najib Saadeh as the back-up pretreatment coordinator.

Soon after approval of the pretreatment program is received, EEC recommends that IRWD start its search for a pretreatment coordinator to allow sufficient time for training the new hire prior to fully transitioning the pretreatment program responsibilities.

## Fee Schedule and Control

EEC performed an analysis of the estimated hours that each member of the EEC project team will contribute for the individual tasks presented under the scope of work herein. EEC staff has the expertise in pretreatment and FOG program management necessary to develop and implement a robust program for IRWD.

The estimated, not-to-exceed cost for Year 1 is \$ \$87,900. For Year 2, the work will consist of leading the pretreatment program as well as training the new Pretreatment Manager and, ultimately, transition the pretreatment program responsibilities to the Pretreatment Manager. For Year 2, the estimated, not-to-exceed cost is \$ \$52,680. The estimated total cost includes labor, material, equipment and insurance. Please refer to the table below for details on the estimated cost. For the purpose of this proposal, EEC assumed that inspections of FSEs are not included. Inspections of IUs are included. Our estimates are based on standard fee schedule which equates to salary multipliers ranging from 2.0 to 4.0. The cost does not include the FOG-related activities currently being performed by EEC. The assumption is that EEC would continue performing FOG-related activities under a separate budget.

As the Project Manager, Najib Saadeh will be the main point of contact for the project and will communicate and coordinate with IRWD's staff, prepare status progress reports (technical, schedule, budgets). A preliminary project schedule is included in this proposal. It will be refined and expanded based on discussions with IRWD staff.

Mr. Saadeh has managed many large long-term client portfolios and programs during his career which included budget and schedule tracking on a large number of projects and tasks for several clients simultaneously. Mr. Saadeh was responsible for budget and schedule tracking, staffing, technical direction, agency and stakeholder engagement, and generating project status reports.

Once the project has kicked off, we will verify the project budget regularly, checking in if any discrepancies are identified. The EEC Team has standardized processes using lessons learned from other project experience. These processes are used by our planners and engineers to ensure a quality finished project is delivered within budget. The team's track record of delivering projects within budget has been proven time and time again. The team will notify and meet with the IRWD Project Manager immediately if additional scope is added to secure funding and avoid a task going over budget.

## Schedule

B-11



**Cost Sheet - IRWD Pretreatment Program Development and Implementation**

<b>Task Description</b>	<b>Project Regulatory Specialist (Joseph Jenkins) Hours</b>	<b>Senior Regulatory Specialist (Keith Silva) Hours</b>	<b>Project Manager (Najib Saadeh) Hours</b>	<b>Principal In charge (John Shaffer) Hours</b>	<b>Cost (\$)</b>
<b>Task 1 - Project Management and Meetings for Years 1 and 2</b>	16	16	24	2	\$11,160
<b>Task 1 - Subtotal</b>	<b>16</b>	<b>16</b>	<b>24</b>	<b>2</b>	<b>\$11,160</b>
<b>Year 1</b>					
<b>Task 2 - Pretreatment Program Development Documents</b>					
Industrial Survey	16	4	10	0	\$5,610
Permit and Inspection Form Templates	20	8	12	0	\$7,500
Enforcement Response Plan Development	16	8	16	0	\$7,560
Administrative Procedures Manual Development	24	4	12	1	\$7,680
Addressing Comments from the RWQCB	8	8	16	1	\$6,360
<b>Task 2 - Subtotal</b>	<b>84</b>	<b>32</b>	<b>66</b>	<b>2</b>	<b>\$34,710</b>
<b>Task 3 - Modification of Sewer Rules and Regulations and MOU</b>					
Modification of Sewer Rules and Regulations	16	4	16	2	\$7,260
Modification of MOU	8	4	16	2	\$5,820
<b>Task 3 - Subtotal</b>	<b>24</b>	<b>8</b>	<b>32</b>	<b>4</b>	<b>\$13,080</b>
<b>Task 4 - Resource Identification and Procurement</b>					
Identifying of Additional Resources Needed	8	4	8	2	\$4,260
Assistance with Evaluation, Procurement and Implementation	8	4	16	2	\$5,820
<b>Task 4 - Subtotal</b>	<b>16</b>	<b>8</b>	<b>24</b>	<b>4</b>	<b>\$10,080</b>
<b>Task 5 - Industry/City Outreach Efforts</b>					
Outreach to Current Permitted IUs	4	0	4	0	\$1,500
Introduction of IRWD's PTP and FOG Programs to Cities	16	0	16	0	\$6,000
Development of Outreach Materials and Meetings	8	2	8	1	\$3,630
<b>Task 5 - Subtotal</b>	<b>28</b>	<b>2</b>	<b>28</b>	<b>1</b>	<b>\$11,130</b>
<b>Task 6 - Website Modifications</b>					
Addition of Information on Pretreatment Program	8	2	8	2	\$3,870
Update to IRWD's FOG Program Page	8	2	8	2	\$3,870
<b>Task 6 - Subtotal</b>	<b>16</b>	<b>4</b>	<b>16</b>	<b>4</b>	<b>\$7,740</b>
<b>Year 1 - Subtotal</b>	<b>184</b>	<b>70</b>	<b>190</b>	<b>17</b>	<b>\$87,900</b>
<b>Year 2</b>					
<b>Task 7: Pretreatment Program Implementation</b>					
Lead Pretreatment Coordinator Role	80	20	80	4	\$34,860
Training and Transitioning	40	12	40	2	\$17,820
<b>Task 7 - Subtotal</b>	<b>120</b>	<b>32</b>	<b>120</b>	<b>6</b>	<b>\$52,680</b>
<b>Year 2 - Subtotal</b>	<b>120</b>	<b>32</b>	<b>120</b>	<b>6</b>	<b>\$52,680</b>
<b>Total Hours per Function</b>	<b>304</b>	<b>102</b>	<b>310</b>	<b>23</b>	
<b>TOTAL ESTIMATED COST FOR YEARS 1 &amp; 2 = \$140,580</b>					

B-12





## 2018 Fee Schedule

### PERSONNEL CHARGES

The charge for all time required for the performance of the Scope of Work, including office, field and travel time, will be billed at the hourly rate according to the labor classifications set forth below:

Labor Classification	Hourly Rate
Jr. Staff Engineer/Geologist/Scientist	\$115
Staff Engineer/Geologist/Scientist	\$130
Sr Staff Engineer/Geologist/Scientist	\$145
Project Engineer/Geologist/Scientist - I	\$170
Project Engineer/Geologist/Scientist - II	\$180
Sr Project Engineer/Geologist/Scientist - I	\$195
Sr Project Engineer/Geologist/Scientist - II	\$215
Principal Geologist	\$240
Principal	\$240
Project Assistant	\$100
Technician	\$100
Drafter	\$125
Sr Technician	\$125
Compliance Inspector	\$120
Technician GIS/Technology	\$105
Analyst GIS/Technology	\$115
Sr Analyst GIS/Technology	\$125
Specialist GIS/Technology	\$135
Sr Specialist GIS/Technology	\$145
Supervisor GIS/Technology	\$160
Director/GIS Technology	\$175
Construction Technician	\$90
Construction Field Supervisor	\$110
Construction Manager	\$115
Sr Construction Manager	\$140
Technical Editor	\$110

Emergency response will be charged at a rate of 1.5 times the standard hourly rate.

When EEC Staff appear as expert witnesses at court trials, mediation, arbitration hearings and depositions, their time will be charged at 2.0 times the standard rate. All time spent preparing for such trials, hearings, and depositions, will be charged at the standard hourly rate.

### Travel

Vehicles used on project assignments will be charged at \$75 per day. Mileage is billed at the current rate established by the Internal Revenue Service plus mark up. Per Diem is billed at a unit cost of \$60 per day. Airfare, lodging, rental cars and associated expenses are billed at cost plus 15%.

### Field Equipment

Field Equipment is billed at standard unit costs. Rate schedules are available upon request.

### Subcontractors and Reimbursables

The costs of subcontractors, materials, equipment rental and costs incurred will be charged at cost plus 15%.

### Other Project Charges

The cost of additional report reproduction and special project accounting will be billed as appropriate. Plotting plans are charged by size, black and white or color, and by the number of copies supplied.

### Shipping and Postage

Shipping charges include couriers and the postage necessary will be charged at cost plus 15%.

### Interest Charges

Interest on late payments will be charged at the rate of 1.5% per month.

### Payment Terms

Net 30 days apply to all work performed and invoiced unless superseded by a specific executed contract.

*This Fee Schedule is adjusted each subsequent year to reflect the economic changes for the new year.  
The new schedule will apply to existing and new assignments.*

June 25, 2018

Prepared by: J. McGehee/R. Mori

Submitted by: K. Burton *(KLB)*

Approved by: Paul A. Cook *(PAC)*

## ACTION CALENDAR

### ZONE 1 RESERVOIR CONSULTANT SELECTION AND CONSTRUCTION AWARD

#### SUMMARY:

The Zone 1 Reservoir project includes construction of a 3.7 million gallon (MG) prestressed concrete reservoir next to the existing 15 MG Zone 1 steel reservoir on Sand Canyon Avenue. Staff recommends that the Board:

- Authorize the General Manager to execute a Professional Services Agreement in the amount of \$290,000 with Tetra Tech, Inc. for engineering support services during construction; and
- Authorize the General Manager to execute a construction contract with Pacific Hydrotech Corporation in the amount of \$9,688,996 for the 3.7 MG Zone 1 Reservoir.

#### BACKGROUND:

IRWD currently operates a 15 million gallon domestic water reservoir located off Sand Canyon Avenue between Trabuco Road and Elysian as shown on Exhibit "A". This reservoir serves as the primary storage for the Zone 1 domestic water system and as the forebay for the onsite East Irvine Zone 1 to 3 and South County emergency booster pump stations. The project includes construction of a new 3.7 MG aboveground prestressed concrete reservoir, which will increase the overall domestic water storage in the Zone 1 system and will provide greater operational flexibility and storage redundancy in IRWD's largest domestic water service area.

#### Consultant Selection:

Tetra Tech performed all elements of the pre-design and design phases for the project, including geotechnical, civil, mechanical, structural, electrical, and instrumentation. Staff requested Tetra Tech to submit a proposal for engineering support services during construction. The proposal, which is attached as Exhibit "B", includes scope for submittal reviews, responses to contractor requests for information, site visits, record drawing preparation, energy control procedure development, and construction coordination and engineering support commensurate with the requirements of the project.

Staff reviewed Tetra Tech's scope of work and fee and recommends that the Board authorize the General Manager to execute a Professional Services Agreement with Tetra Tech, in the amount of \$290,000, for engineering support services during construction.

Construction Award:

The project was advertised for construction bids on May 15, 2018 to a select list of four contractors including Gateway Pacific Contractors, Kiewit Infrastructure West, Pacific Hydrotech Corporation, and Pascal & Ludwig Constructors.

The bid opening was held June 19, 2018 with bids received from Gateway Pacific Contractors, Pacific Hydrotech Corporation, and Pascal & Ludwig Constructors. Pacific Hydrotech Corporation is the apparent low bidder with a bid amount of \$9,688,996. The remaining bids were \$10,949,779 and \$11,125,096. The engineer's estimate, prepared by Tetra Tech, was \$11,000,000. The bid summary is attached as Exhibit "C".

Staff reviewed Pacific Hydrotech Corporation's bid and has determined that it is responsive. Staff recommends that the Board authorize the General Manager to award a construction contract to Pacific Hydrotech Corporation in the amount of \$9,688,996.

FISCAL IMPACTS:

The 3.7 MG Zone 1 Reservoir, Project 06401, is included in the FY 2018-19 Capital Budget and will be funded through regional potable water funds. The existing budget is sufficient to fund the recommendation presented herein.

ENVIRONMENTAL COMPLIANCE:

This project is subject to the California Environmental Quality Act (CEQA) and in conformance with California Code of Regulations Title 14, Chapter 3, Article 6, a Notice of Intent to adopt a Mitigated Negative Declaration was filed with the County of Orange on January 18, 2018. Pursuant to State Guideline § 15073, the Initial Study/Mitigated Negative Declaration (IS/MND) was made available for public review for a period of 30 days from January 18, 2018 through February 16, 2018. The IS/MND was adopted by IRWD Board of Directors at its March 26, 2018 meeting. A Notice of Determination was filed with the Orange County Clerk/Recorder and the CA State Clearinghouse on March 27, 2018.

COMMITTEE STATUS:

The consultant selection recommendation was reviewed by the Engineering and Operations Committee on June 19, 2018. 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 TETRA TECH, INC. IN THE AMOUNT OF \$290,000 FOR ENGINEERING SUPPORT SERVICES DURING CONSTRUCTION; AND AUTHORIZE THE GENERAL MANAGER TO EXECUTE A CONSTRUCTION CONTRACT WITH PACIFIC HYDROTECH CORPORATION IN THE AMOUNT OF \$9,688,996, FOR THE 3.7 MG ZONE 1 RESERVOIR, PROJECT 06401.

LIST OF EXHIBITS:

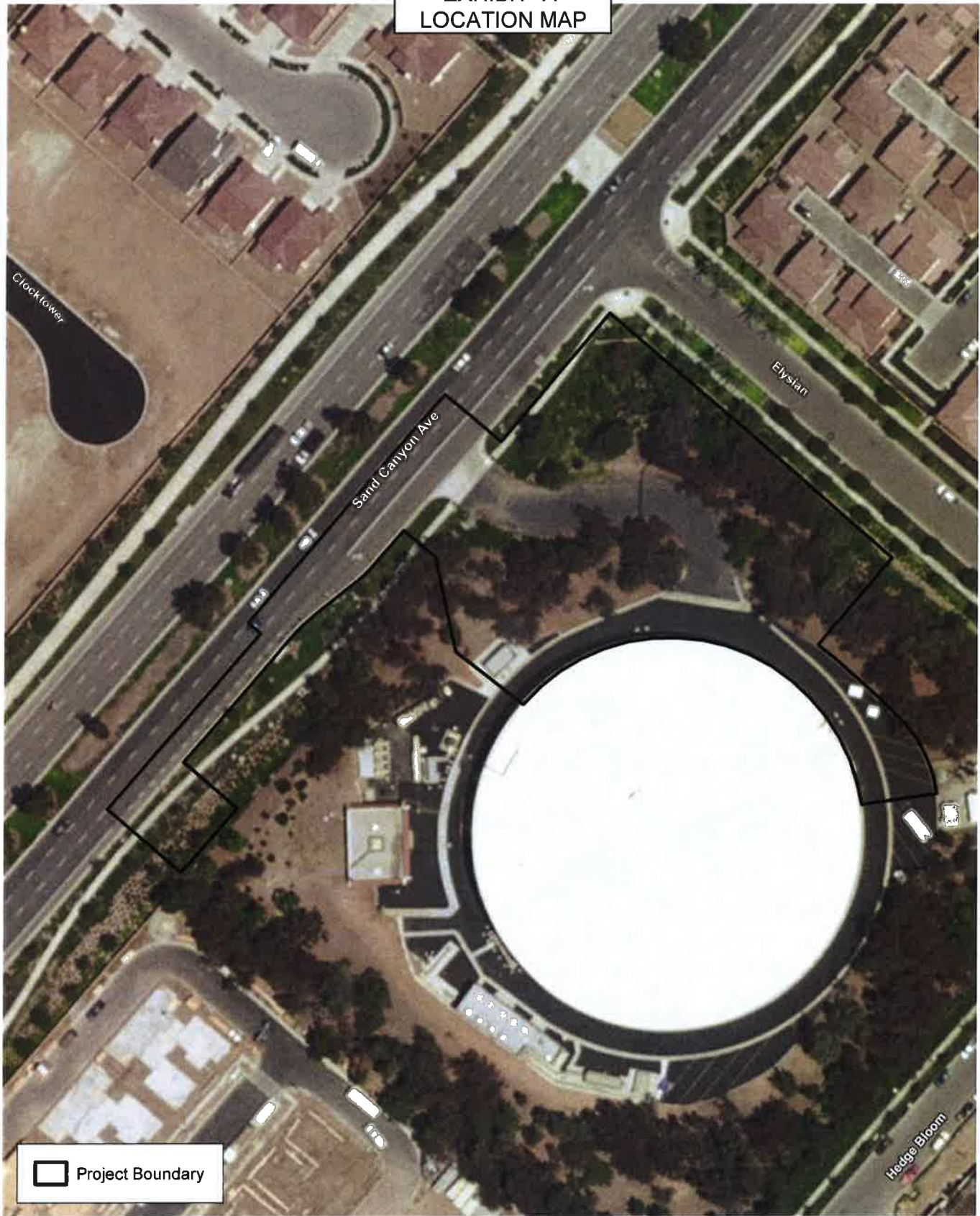
Exhibit "A" – Location Map

Exhibit "B" – Tetra Tech, Inc. Proposal to Provide Construction Support Services

Exhibit "C" – Bid Summary

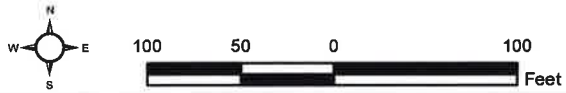


EXHIBIT "A"  
LOCATION MAP



D:\Projects\3RW0009\MXD\MXDDev\_aerial\_20180103.mxd

3.7 MG Zone 1 Reservoir Project





May 1, 2018

Mr. Richard K. Mori, P.E.  
Irvine Ranch Water District  
15600 Sand Canyon Avenue  
Irvine, CA 92619

**Reference: Proposal to Provide Construction Support Services for the  
3.7 MG Zone 1 Reservoir, Project No. 06401**

Dear Mr. Mori:

Tetra Tech has been working with the District on the 3.7 MG Zone 1 Reservoir since September 2016. Tetra Tech submitted the 100% submittal plans and specifications to the District on April 9, 2018. The District has requested Tetra Tech to provide construction support services for the project. By this correspondence, Tetra Tech is requesting approval of this proposal to provide construction support services for the 3.7 MG Zone 1 Reservoir.

#### **CONSTRUCTION SUPPORT SERVICES**

The construction support services depend greatly on the Contractor's construction schedule, the adequacy of his submittals, and the amount of issues/conflicts that arise during the construction of the project. Tetra Tech does not control the amount of the submittals, RFIs or the issues that arise during the construction process. In addition, Tetra Tech does not control the adequacy of the submittals prepared by the Contractor or the level of additional information required by the Contractor. Based on the Contract Documents, the time for completion shall be within 540 calendar days (about 18 months) from the date of the Notice of Award.

In summary, Tetra Tech will perform these construction support services on a time and material basis while not exceeding the approved budget.

The following is a summary of the anticipated level of service for each task:

##### **Task 1 – Project Management**

Tetra Tech will include preparation of monthly invoices and invoice backup spreadsheets. We are assuming a duration of eighteen (18) months.

##### **Task 2 – Project Meetings**

Tetra Tech will attend up to thirty-five (35) project meetings of two (2) hours each during the construction duration and shall provide meeting agendas and minutes for each meeting.

##### **Task 3 – Contractor's Request for Information (RFI)**

Tetra Tech will respond up to seventy-five (75) Request for Information (RFI). We have assumed that fifteen (15) of these responses will require a corresponding sketch or exhibit.

##### **Task 4 – Minor Plan Revisions**

Tetra Tech will provide up to one hundred (100) hours of staff time for minor plan revisions to the construction drawings.

**Tetra Tech, Inc.**

17885 Von Karman Avenue, Suite 500, Irvine, CA 92614-6213  
Tel 949.809.5000 Fax 949.809.5010 www.tetrattech.com

Mr. Richard K. Mori, P.E.  
May 1, 2018  
Page 2

**Task 5 – Site Visits**

Tetra Tech will conduct up to ten (10) site visits of two (2) hours each as needed during construction.

**Task 6 – Shop Drawing Submittals**

Tetra Tech will review and respond up to two hundred (200) shop drawing submittals, including resubmittals. Based on the plans and specifications, we have estimated up to 150 shop drawings submittals with 50 resubmittals.

**Task 7 – Energy Control Procedures and Asset Management**

Tetra Tech will prepare Energy Control Procedures (ECP's) in accordance with California Occupational Safety and Health (Cal/OSHA) requirements for all equipment and operations that may store potential energy. Tetra Tech will also prepare an inventory of new equipment utilizing IRWD's asset management parent/child spreadsheet format. Tetra Tech will include a budget of \$5,000 for preparing the ECP's and asset management inventory spreadsheet.

**Task 8 – Record Drawings**

Tetra Tech will prepare record drawings at the construction completion using Contractor's and District Inspector's red-lines. Tetra Tech will submit final record drawings including AutoCAD electronic files, and a single-color PDF electronic file of the entire signed plan set.

**Task 9 – Additional Construction Coordination**

Tetra Tech will provide additional construction coordination (labor/time spent in addition to responses to RFIs, review of submittals, and other task items listed above) and general engineering support to the District. This task will include: answering general IRWD/Contractor/City of Irvine inquiries; coordination with IRWD, Contractor, City of Irvine; coordination with and responding to inquiries from SCE, City of Irvine, Crown Castle, etc.; and general engineering support as requested by the District.

**Task 10 – Landscape Support**

Kobzeff & Associates, Tetra Tech's Landscape subconsultant, will provide landscape construction support services during construction. The support services will include: field meetings; responding to RFIs; site visits; review of tree removal and protection plan; review of submittals; and additional construction coordination and support as requested by the District. Tetra Tech has included a budget of \$23,000 for this landscape support.

Mr. Richard K. Mori, P.E.  
May 1, 2018  
Page 3

**BUDGET**

Tetra Tech will perform the above services on a Time and Material Basis and will provide status summaries to the District each month. The following is our requested budget for the Construction Support Services:

Task 1 – Project Management (18 months)	\$ 3,100
Task 2 – Project Meetings (35)	\$ 13,300
Task 3 – Contractor’s Request for Information (75/15)	\$ 40,700
Task 4 – Minor Plan Revisions (100 hours)	\$ 12,200
Task 5 – Site Visits (10)	\$ 4,000
Task 6 – Shop Drawing Submittals (200)	\$ 91,200
Task 7 – Energy Control Procedures and Asset Mgmt	\$ 5,000
Task 8 – Record Drawings	\$ 22,500
Task 9 – Additional Construction Coordination	\$ 75,000
Task 10 – Landscape Support	<u>\$ 23,000</u>
<b>Hourly but Not-to-Exceed Budget</b>	<b>\$290,000</b>

The following page provides our person-hour estimate per task for this work. We have also included our proposed Hourly Rate Schedule.

Tetra Tech is pleased to submit this proposal to provide the above scope of services for a not-to-exceed fee amount of **\$290,000**. It is our understanding that this work will be performed under a new Agreement for Professional Services including the corresponding new purchase order.

If you have any questions or require additional information, please do not hesitate to call.

Sincerely,



Tom Epperson, P.E.  
Project Manager

TE/te

P:\135-09368-17002\ProjMgmt\Correspondence\Drafts\Construction Support Services Proposal.doc  
Attachment



Irvine Ranch Water District  
 3.7 MG Zone 1 Reservoir  
 Construction Phase Services  
 Fee Proposal

Task Description							Fees		TOTALS
	Senior Project Manager	Project Engineer	Design Engineer	CADD	WP	Total Hours	Labor	Sub-Contractors Re-imbursables	
<b>Construction Support Services</b>									
Project Management (18 months)	10	0	0	0	0	10	\$3,050	\$50	\$3,100
Project Meetings (35)	10	60	0	0	0	70	\$12,950	\$350	\$13,300
Request for Information (75/15)	6	150	78	30	0	264	\$40,650	\$50	\$40,700
Minor Plan Revisions (100 hours)	0	8	0	92	0	100	\$12,176	\$24	\$12,200
Site Visits (10)	4	16	0	0	0	20	\$3,860	\$140	\$4,000
Shop Drawing Submittals (150/50)	20	300	200	64	10	594	\$91,102	\$98	\$91,200
Energy Control Proc. & Asset Mgmt	0	16	16	0	2	34	\$4,990	\$10	\$5,000
Record Drawings	0	4	16	160	2	182	\$21,890	\$610	\$22,500
Additional Construction Coordination	40	320	60	10	6	436	\$74,850	\$150	\$75,000
Landscape Support	0	0	0	0	0	0	\$0	\$23,000	\$23,000
Budget Request	90	874	370	356	20	1710	\$265,518	\$24,482	\$290,000
<b>TOTAL</b>	<b>90</b>	<b>874</b>	<b>370</b>	<b>356</b>	<b>20</b>	<b>1710</b>	<b>\$265,518</b>	<b>\$24,482</b>	<b>\$290,000</b>

# EXHIBIT "C"

Bid Opening: Tuesday, June 19, 2018 @ 2:00 p.m.

Irvine Ranch Water District  
Bid Summary  
For  
3.7 MG Zone 1 Reservoir  
Project Number 06401

Entered By: J. McGehee

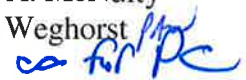
				1		2		3				
				Engineer's Estimate		Pacific Hydrotech Corporation Perris, CA		Gateway Pacific Contractors Sacramento, CA		Pascal & Ludwig Constructors Ontario, CA		
Item No	Description	Qty	Unit	Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount	
<b>Base Bid Items</b>												
1	Furnish All Labor, Materials, Equipment, Services, and Appurtenant Work, Except for Items 2 Through 9 Below, for the Construction of the 3.7 MG Zone 1 Reservoir Project	1	LS	\$10,260,000.00	\$10,260,000.00	\$8,732,000.00	\$8,732,000.00	\$9,721,683.00	\$9,721,683.00	\$10,027,000.00	\$10,027,000.00	
2	Mobilization, Demobilization, and Cleanup (not to exceed 4% of contract price)	1	LS	\$421,000.00	\$421,000.00	\$380,000.00	\$380,000.00	\$400,000.00	\$400,000.00	\$300,000.00	\$300,000.00	
3	Payment and Performance Bonds, and Insurance	1	LS	\$100,000.00	\$100,000.00	\$135,000.00	\$135,000.00	\$250,000.00	\$250,000.00	\$134,000.00	\$134,000.00	
4	Erosion Control Measures	1	LS	\$25,000.00	\$25,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$47,000.00	\$47,000.00	
5	Excavation Safety Measures	1	LS	\$30,000.00	\$30,000.00	\$271,700.00	\$271,700.00	\$400,000.00	\$400,000.00	\$397,000.00	\$397,000.00	
6	Start-up, Testing, and Training	1	LS	\$25,904.00	\$25,904.00	\$12,200.00	\$12,200.00	\$20,000.00	\$20,000.00	\$82,000.00	\$82,000.00	
7	Procurement of PAX Mixers Through Fixed-Price Proposal	1	LS	\$93,096.00	\$93,096.00	\$93,096.00	\$93,096.00	\$93,096.00	\$93,096.00	\$93,096.00	\$93,096.00	
8	Operations and Maintenance Manuals	1	LS	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	
9	Prepare and Maintain Record Drawings	1	LS	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	
<b>SUBTOTAL, Base Bid Items</b>					<b>\$11,000,000.00</b>		<b>\$9,688,996.00</b>		<b>\$10,949,779.00</b>		<b>\$11,125,096.00</b>	
Adjustment (+ or -)					\$0.00		\$0.00		\$0.00		\$0.00	
<b>TOTAL AMOUNT OF BID</b>					<b>\$11,000,000.00</b>		<b>\$9,688,996.00</b>		<b>\$10,949,779.00</b>		<b>\$11,125,096.00</b>	
<b>NOTES:</b>												
				<b>Items</b>			<b>Manufacturers:</b>			<b>Manufacturers:</b>		
				Butterfly Valves (≥ 36" Dia.)			Mueller			Dezurik		
				Butterfly Valves (< 36" Dia.)			Mueller			Pratt		
						<b>Subcontractors:</b>			<b>Subcontractors:</b>			
						Tank Prestressing: DN Tanks			Tank Prestressing: DN Tanks			
						Rebar: Alamillo Rebar			Rebar: Amber Steel			
						Paving: Hardy & Harper			Paving: Hardy & Harper			
						Landscaping: Zunigascales			Landscaping: Marina			
						Tree Removal: Landscape Center			Tree Removal: Landscape Center			
						Coatings: National Coatings			Coatings: National Coatings			
						Electrical: Hydro Electric			Electrical: Hydro Electric			
						Shoring (Deck) Torres Brothers			Shoring (Deck) Torres Brothers			
						Shoring (Earth) Blue Iron			Shoring (Earth) Blue Iron			
						Fencing: Red Hawk			Structural Steel: Remco			
						Site Concrete: Wheeler Paving			Piping: Mike Bubalo Const			

June 25, 2018

Prepared by: M. Seesangrit/A. McNulty

Submitted by: F. Sanchez/P. Weghorst

Approved by: Paul A. Cook



## ACTION CALENDAR

### GET SMART WATER-ENERGY CUSTOMER PROGRAM

#### SUMMARY:

In 2017, IRWD successfully implemented a combined water-energy efficiency program with Southern California Edison (SCE) and Southern California Gas Company (SoCal Gas). Staff proposes to continue this water-energy partnership in 2018 with the implementation of a new program, called the “Get Smart” program. The Get Smart program will provide customers with Rachio smart irrigation timers (smart timers) and Nest thermostats. IRWD will provide funding for the smart timers while the energy utilities will provide funding for the thermostats. SCE and SoCal Gas have a contract with Synergy Companies to implement the energy portion of the program. Synergy Companies is also qualified to implement the water portion of the program. Staff recommends the Board authorize the General Manager to execute an Installation Services Agreement with Synergy Companies in the amount of \$350,000 for the water portion of the Get Smart program.

#### BACKGROUND:

In 2017, IRWD collaborated with SCE and SoCal Gas to implement a grant-funded program called the “One-Stop Shop for Water and Energy Efficiency” (One-Stop Shop program). The Department of Water Resources provided \$1.9 million in grant funding for the One-Stop Shop program. This successful program garnered interest from over 2,400 customers and 1,959 homes were provided with utility-provided water and energy efficiency upgrades by completing a single program application. The grant-funded One-Stop Shop program is now complete. To build on the success of the program, staff is proposing to continue the successful partnership with SCE and SoCal Gas by implementing a new water-energy program called “Get Smart”.

#### Get Smart Program:

The proposed Get Smart program will offer mutual customers of IRWD, SCE and SoCal Gas a Rachio smart irrigation timer and a Nest thermostat. The proposed program will launch in July 2018 and will facilitate the conservation of water and energy during the summer months by providing smart devices that automatically make adjustments of water and energy use based on irrigation demands and air conditioning requirements. Over-watering during the hot summer months is one of the leading causes of high water use. Smart timers can help customers avoid over-watering by automatically making the appropriate irrigation schedule adjustments based on the weather and specific conditions of landscape areas.

The webpage and registration portal that was created for the One-Stop Shop program will be rebranded for the Get Smart program. Repurposing the registration portal will eliminate the majority of program start-up costs. New marketing materials will direct customers to register on the program portal. Eligible customers may receive up to two Rachio smart timers, depending upon their landscape needs and a detailed assessment of their landscape. The Rachio 2 model was the smart timer used in the One-Stop Shop program. The new Rachio 3 model will be used in the Get Smart program.

Rachio 3 Smart Timer:

The Rachio 3 smart timer technology is compatible with the Nest smart home system offered by the energy utilities. The Rachio smart timer platform has an application that is accessible from a smartphone. This easy-to-use application provides customers with information about irrigation schedules such as anticipated run times, total gallons of water used per irrigation cycle and notifications if the controller is offline. Customers will receive on-site training on how to program the Rachio 3 controller using their smartphones.

Agreement with Synergy Companies:

Staff proposes that IRWD enter into an agreement with Eagle Systems International, Inc, doing business as Synergy Companies to install the Rachio 3 smart timers at eligible customer locations. Synergy Companies was the installation contractor for the One-Stop Shop program and is currently the only company under contract with SCE and SoCal Gas to install the Nest thermostats. By entering into an agreement with Synergy Companies to install the smart timers, IRWD can leverage the energy utilities' smart thermostat direct installation program and continue to provide a "One-Stop Shop" experience for customers who participate in the new Get Smart program.

The draft agreement and scope of services from Synergy Companies for implementation of the Get Smart Program is attached as Exhibit "A". Staff recommends that the Board authorize the General Manager to execute an agreement with Synergy Companies for the Get Smart program that commits funding in the amount of \$350,000.

FISCAL IMPACTS:

Funding for a smart timer distribution program is included in the FY 2018-19 Operating Budget in the amount of \$350,000.

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

This item was reviewed by Water Resources Policy and Communications Committee on June 13, 2018.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE THE INSTALLATION SERVICES AGREEMENT WITH EAGLE SYSTEMS INTERNATIONAL, INC. DOING BUSINESS AS SYNERGY COMPANIES, FOR THE GET SMART PROGRAM THAT COMMITS FUNDING IN THE AMOUNT OF \$350,000, SUBJECT TO NON-SUBSTANTIVE CHANGES.

LIST OF EXHIBITS:

Exhibit "A" - Agreement with Synergy Companies for Get Smart Program

# EXHIBIT "A"

## INSTALLATION SERVICES AGREEMENT

This INSTALLATION SERVICES AGREEMENT ("Agreement") is effective \_\_\_\_\_, 20\_\_ ("Effective Date") and is between the IRVINE RANCH WATER DISTRICT, a California Water District formed and existing pursuant to the California Water District Law ("District"), and EAGLE SYSTEMS INTERNATIONAL, INC., a Utah corporation doing business as SYNERGY COMPANIES ("Contractor"). The District and the Contractor are each a "party" and together are the "parties."

The District sponsors a program for direct installation of certain fixtures and equipment in its customer's properties in order to encourage water use efficiency. Contractor is a contractor licensed in the State of California that installs efficiency and conservation fixtures and equipment. The Parties intend by this Agreement to provide for Contractor's provision of on-call installation services of water efficiency fixtures and equipment at the sites of certain District customers, as directed by the District

The Parties therefore agree as follows:

**1. Agreement.** The following documents (if applicable) are incorporated into this Agreement by this reference:

Certificate(s) of Insurance and Endorsements

In the event of conflict between any of the terms and conditions contained in the above-listed documents and any of the terms and conditions contained in this Agreement, the parties agree that the terms and conditions contained in this Agreement will control.

**2. Services.** Subject to the terms and conditions set forth in this Agreement, Contractor agrees to provide District the services described in the Scope of Services, attached hereto as Exhibit 1 ("Services"). Contractor must, at its sole cost and expense, furnish all equipment that may be required for furnishing the Services. Contractor will not be compensated for services outside the scope of the Services as described in Exhibit 1, and in the Contractor's proposal, unless prior to the commencement of such out of scope services: (a) Contractor notifies District and District agrees that such services are out of scope services; (b) Contractor estimates the additional compensation required for such out of scope services; and (c) District, after notice, approves in writing a variance in the form attached hereto as Exhibit 6, specifying such out of scope services and amount of compensation for performing those out of scope services. District does not have any obligations whatsoever under this Agreement and/or any variance unless and until this Agreement and/or any variance is approved by the District's General Manager or authorized designee. Specific authorization to proceed with the Services shall be granted

in writing by District. Contractor shall not proceed with the Services unless authorized. If it is specified in the Scope of Services as described in Exhibit 1 that the Services are to be performed in phases as authorized, Contractor shall not proceed with any phase unless it is separately authorized.

**3. Exhibits.** The following exhibits are attached to this Agreement and incorporated into this Agreement by this reference:

- \_\_\_ Exhibit 1 – Scope of Services
- \_\_\_ Exhibit 2 – Fee Schedule (including Schedule of Charges for Services)
- \_\_\_ Exhibit 3 – Insurance Requirements
- \_\_\_ Exhibit 4 – Public Works Requirements
- \_\_\_ Exhibit 5 – Special Provisions
- \_\_\_ Exhibit 6 – Non-consultant Services Variance

**4. Payment.** District must pay Contractor for the Services in the manner specified in Exhibit 2. The payments specified in Exhibit 2 are the only payments to be made to Contractor for the services rendered pursuant to this Agreement unless pursuant to Section 1, above, District approves additional compensation for additional services. Contractor must submit all billings for said services to District in the manner specified in Exhibit 2.

**5. No Guarantee of Compensation for On-Call Services.** If this Agreement is an agreement for “on-call” Services, District makes no guarantee to Contractor as to the amount of Contractor-provided on-call Services will be requested by the District or the amount of compensation that will be provided Contractor pursuant to this Agreement. Under no circumstances, will Contractor or any of its subcontractors be entitled to or compensated for any direct or indirect loss arising from or relating to District’s failure to authorize performance of services under this Agreement. Such direct and indirect loss includes, but is not limited to, loss of expected profits, business overhead, loss of productivity, and loss of opportunity to work on other projects.

**6. Standards of Performance.** Contractor must perform all Services required pursuant to this Agreement in the manner and according to the standards currently observed by a competent practitioner of Contractor’s industry in California. Contractor must prepare all deliverables provided to District pursuant to this Agreement in a professional manner and conform to the standards of quality normally observed by a person currently practicing in Contractor’s industry, and must be provided in accordance with any schedule of performance specified in Exhibit 1. Contractor must assign only competent personnel to perform Services. Contractor must also devote such time and effort to the performance of Services as is necessary for the satisfactory and timely performance of Contractor’s

obligations under this Agreement. Neither party will be deemed in default of this Agreement, to the extent that party's performance is prevented or delayed by any cause, present or future, that is beyond the reasonable control of that party.

**7. Independent Contractor.** It is understood and agreed that Contractor (including Contractor's employees) is an independent contractor and that no relationship of employer-employee exists between the parties hereto for any purpose whatsoever. Neither Contractor nor Contractor's assigned personnel shall be entitled to any benefits payable to employees of District. District is not required to make any deductions or withholdings from the compensation payable to Contractor under the provisions of this Agreement. It is further understood and agreed by the parties hereto that Contractor, in the performance of its obligations hereunder, is subject to the control and direction of District as to the designation of tasks to be performed and the results to be accomplished under this Agreement, but not as to the means, methods, or sequence used by Contractor for accomplishing such results. To the extent that Contractor obtains permission to, and does, use District facilities, space, equipment or support services in the performance of this Agreement, this use is at the Contractor's sole discretion based on the Contractor's determination that such use will promote Contractor's efficiency and effectiveness. Except as may be specifically provided elsewhere in this Agreement, the District does not require that Contractor use District facilities, equipment or support services or work in District locations in the performance of this Agreement. If, in the performance of this Agreement, any third persons are employed by Contractor, then Contractor must ensure that such persons are entirely and exclusively under Contractor's direction, supervision, and control.

**8. Contractor Not Agent of District.** Except as District may specify in writing, Contractor and Contractor's personnel do not have authority, express or implied, to act on behalf of District in any capacity whatsoever as an agent. Contractor and Contractor's personnel do not have the authority, express or implied, to bind District to any obligations whatsoever.

**9. Conflicts of Interest.** Contractor covenants that neither it, nor any officer or principal of its firm, has or will acquire any interest, directly or indirectly, that would conflict in any manner with the interests of District or that would in any way hinder Contractor's performance of the Services. Contractor further covenants that in the performance of this Agreement, no person having any such interest will be employed by Contractor as an officer, employee, agent or subcontractor, without the written consent of District. Contractor agrees to avoid conflicts of interest or the appearance of any conflicts of interest with the interests of District at all times during the performance of this Agreement.



**10. Licenses and Permits.** Except for any licenses, permits, or approvals which are expressly provided by the Scope of Services to be obtained by the District, Contractor represents and warrants that Contractor has all licenses, permits, qualifications, and approvals that are legally required for Contractor to provide the Services. Contractor represents and warrants that Contractor will, at its sole cost and expense, keep in effect or obtain at all times during the term of this Agreement any licenses, permits, and approvals that are legally required for Contractor to provide the Services. Without limiting the generality of the foregoing, if Contractor is an out-of-state corporation, Contractor warrants and represents that it possesses a valid certificate of qualification to transact business in the State of California issued by the California Secretary of State pursuant to Section 2105 of the California Corporations Code.

**11. Indemnification.** Contractor agrees to defend, hold harmless and indemnify District, its officers and employees, and each and every one of them, from and against any and all actions, damages, costs, liabilities, claims, demands, losses, judgments, penalties, costs and expenses of every type and description, including, but not limited to, any fees and/or costs reasonably attorney fees and any fees and expenses incurred in enforcing this provision (hereafter collectively referred to as "Liabilities"), including but not limited to Liabilities arising from personal injury or death, damage to personal, real or intellectual property or the environment, contractual or other economic damages, or regulatory penalties, arising out of or in any way connected with performance of or failure to perform this Agreement by Contractor, any subcontractor or agent, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, whether or not (i) such Liabilities are caused in part by a party indemnified hereunder or (ii) such Liabilities are litigated, settled or reduced to judgment; provided that the foregoing indemnity does not apply to liability for any damage or expense for death or bodily injury to persons or damage to property to the extent arising from the negligence or willful misconduct of District.

**12. Insurance Requirements.** During the entire term of this Agreement, Contractor must maintain the insurance coverage described in Exhibit 3.

**13. Public Works Requirements.** If the Services include "public work" subject to the requirements of the California Labor Code or other applicable statutes (generally, any of the following paid for by the District, with a contract amount of \$1,000 or more: construction work (including inspection and land surveying), alteration work, demolition work, installation work, street or other improvement work, repair work, certain refuse hauling for disposal, and maintenance work other than routine or recurring janitorial or

custodial work), Contractor shall comply with the requirements set forth in Exhibit 4, to the extent applicable to any of the Services.

**14. Non-Discrimination.** Contractor represents and warrants that it has and adheres to a policy of equal opportunity non-discrimination, and non-harassment of all persons regardless of race, religion, color, national origin, ancestry, disability, medical condition, marital status, gender, age, veteran status, or sexual orientation. Such policy must be in conformance with applicable State and Federal guidelines including the California Government Code Section 12940 (h), 12940(i), and the Federal Equal Opportunity Clause "Section 60-1.4 of Title 41, Part 60 of the Code of Federal Regulations" and must apply to all employment practices including recruitment, candidate selection, training, compensation, promotion, demotion, and recreation. Contractor will designate a specific person responsible for assuring nondiscrimination and non-harassment as provided in the Agreement. That named individual will be responsible for investigating all complaints directed to him/her by District. District will refer complaints in writing, and investigations will be deemed concluded only upon submission of a written investigation report from the Contractor to the District. The scope of such investigations includes not only officers, employees, and agents of the Contractor, but also all subcontractors, subcontractors, material, men, and suppliers of the Contractor. In cases where such investigation results in a finding of discrimination, harassment, or hostile work environment, Contractor must take prompt, effective disciplinary action against the offender. Failure to take appropriate action may be considered a material breach of the Agreement.

**15. Compliance with Laws.** In the performance of this Agreement, Contractor must at all times comply with all applicable governmental laws, statutes, ordinances, rules, codes, regulations, orders and other requirements. Upon the District's request, Contractor must provide the District with documentation demonstrating Contractor's compliance with such governmental requirements. After reasonable notice and under reasonable conditions, Contractor agrees that the District has the right to inspect and copy any records of Contractor regarding such compliance. Contractor represents and warrants that neither Contractor nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any government department or agency.

**16. Term; Suspension; Termination.** This Agreement will become effective on the date that it is approved by both parties, set forth on the first page of the Agreement, and continues in effect until both parties have fully performed their respective obligations under this Agreement, unless sooner terminated as provided herein. District must have the right at any time to temporarily suspend Contractor's performance hereunder, in

whole or in part, by giving a written notice of suspension to Contractor. If District gives such notice of suspension, Contractor must immediately suspend its activities under this Agreement, as specified in such notice. District may terminate this Agreement at any time by giving at least 10-days prior written notice of termination to Contractor. If District gives such notice of termination, Contractor must immediately cease rendering Services pursuant to this Agreement. If District terminates this Agreement, Contractor must, no later than five days after such notice of termination, deliver to District all Work Product prepared pursuant to this Agreement. District must pay Contractor the reasonable value of Services rendered by Contractor prior to termination.

**17. Confidentiality of District Information.** During performance of this Agreement, Contractor may gain access to and use District information regarding personnel, future plans, business affairs, governmental affairs, processes, trade secrets, security of facilities, customer account information, and other sensitive information (hereafter collectively referred to as "District Information"). Contractor agrees to protect all District Information and treat it as strictly confidential, and further agrees not at any time, either directly or indirectly, to divulge, disclose or communicate in any manner any District Information to any third party without the prior written consent of District. A violation by Contractor of this Section is a material violation of this Agreement and must justify legal and/or equitable relief.

**18. Ownership of Work Product.** Contractor agrees that District has full ownership and control, including ownership of any copyrights, of all information prepared, produced, or provided by Contractor pursuant to this Agreement ("Work Product"). Contractor is not responsible for any unauthorized modification or use of such Work Product for other than its intended purpose by District. Contractor agrees to fully defend, indemnify and hold harmless District, its officers and employees, and each and every one of them, from and against any and all claims, actions, lawsuits or other proceedings alleging that all or any part of the information prepared, produced, or provided by Contractor pursuant to this Agreement infringes upon any third party's trademark, trade name, copyright, patent or other intellectual property rights.

**19. California Public Records Act.** All proprietary and other information received from Contractor by District, whether received in connection with Contractor's proposal to District or in connection with any Services performed by Contractor, will be disclosed upon receipt of a request for disclosure, pursuant to the California Public Records Act; provided, however, that, if any information is set apart and clearly marked "trade secret" when it is provided to District, District must give notice to Contractor of any request for the disclosure of such information. The Contractor has five (5) days from the date it

receives such notice to enter into an agreement with the District, satisfactory to the District Counsel, providing for the defense of, and complete indemnification and reimbursement for all costs (including plaintiff's attorney fees) incurred by District in any legal action to compel the disclosure of such information under the California Public Records Act. The Contractor has sole responsibility for defense of the actual "trade secret" designation of such information. The failure of Contractor to respond to the notice provided by District constitutes a complete waiver by Contractor of any rights regarding the information designated "trade secret" by Contractor, and such information will be disclosed by District pursuant to the California Public Records Act.

**20. Severability.** The parties agree that if any portion of this Agreement or the application thereof to any person or circumstance is held invalid or unenforceable, then the remainder of this Agreement will remain effective and is enforceable to the greatest extent permitted by law.

**21. Waiver.** Neither District acceptance of, or payment for, any Service or Additional Service performed by Contractor, nor any waiver by either party of any default, breach or condition precedent, may be construed as a waiver of any provision of this Agreement, nor as a waiver of any other default, breach or condition precedent or any other right hereunder.

**22. Choice of Law and Venue.** The parties agree that this Agreement is to be governed, construed and enforced in accordance with the laws of the State of California. The parties also agree that the venue of any litigation arising out of or connected with this Agreement will lie exclusively in the state trial court or Federal District Court located in Orange County in the State of California, and the parties consent to jurisdiction over their persons and over the subject matter of any such litigation in such courts, and consent to service of process issued by such courts.

**23. No Assignment.** The expertise and experience of Contractor are material considerations for this Agreement. District has a strong interest in the qualifications and capability of the persons and entities who will fulfill the obligations imposed on Contractor under this Agreement. In recognition of this interest, Contractor must not assign any right or obligation pursuant to this Agreement without the written consent of the District. Any attempted or purported assignment without District's written consent is void and of no effect.

**24. Survival of Terms.** The provisions of Section 5, 7, 8, 9, 10, 11, 15, and 17 through 26, survive termination of this Agreement.

**25. Binding Effect.** This Agreement is binding on the heirs, executors, administrators, successors and assigns of the parties.

**26. Entire Agreement.** This document, including all Exhibits, contains the entire agreement between the parties and supersedes whatever oral or written understanding they may have had prior to the execution of this Agreement. No alteration to the terms of this Agreement is valid unless approved in the form of a written variance signed by an authorized representative of Contractor and District.

**27. Authority.** The person signing this Agreement for Contractor hereby represents and warrants that he/she is fully authorized to sign this Agreement on behalf of Contractor and to bind Contractor to the performance of its obligations hereunder.

**EXECUTED AS OF THE DATE FIRST STATED ABOVE.**

**IRVINE RANCH WATER DISTRICT**

Name: Paul Cook  
Title: General Manager  
Signature: \_\_\_\_\_

**Contractor:**

Name of Firm: \_\_\_\_\_  
Federal I.D. No.: \_\_\_\_\_  
State I.D. No.: \_\_\_\_\_

Type of Business Entity (check one):

- Individual/Sole Proprietor
- Partnership
- Corporation (i.e. either corporate president must sign or two corporate officers)
- Limited Liability Company
- Other (please specify: \_\_\_\_\_)

Name of Firm's Authorized Representative: \_\_\_\_\_  
Title: \_\_\_\_\_  
Signature: \_\_\_\_\_

***(If the firm is a corporation and its president did not sign above, then another corporate officer must sign below)***

Name of Firm's Authorized Representative: \_\_\_\_\_  
Title: \_\_\_\_\_  
Signature: \_\_\_\_\_

**EXHIBIT 1  
SCOPE OF SERVICES**

**1. Representatives.**

a. The District Representative for this Agreement is:

Amy McNulty, Water Efficiency Manager  
15600 Sand Canyon Avenue  
Irvine, CA 92618  
(949) 453-5634  
[mcnulty@irwd.com](mailto:mcnulty@irwd.com)

All Contractor questions pertaining to this Agreement must be referred to the District Representative or the District Representative's designee.

b. The Contractor Representative for this Agreement is:

Matthew Clark, Project Director  
90 Business Park Drive  
Perris, CA 92571  
(951) 230-6425  
[matt.clark@synergycompanies.org](mailto:matt.clark@synergycompanies.org)

All District questions pertaining to this Agreement must be referred to the Contractor Representative. All correspondence to Contractor must be addressed to the address set forth on page one of this Agreement. Unless otherwise provided in this Agreement, all correspondence to the District must be addressed to the District Representative.

**2. Scope of Services.**

The scope of services for the Get Smart Program will consist of the direct installation of weather-based irrigation controllers (WBIC) in single-family homes of Irvine Ranch Water District customers. The program may consist of multiple phases depending on customer participation rates. Each phase will have a not-to-exceed amount to ensure the program stays within budget. Each phase requires separate authorization by the District to proceed. Any additional phases will be considered sequentially, when the prior phase is completed, and the determination to authorize each such phase will be at the District's sole discretion. The District's authorization to proceed with a subsequent phase will include a Notice to Proceed for such phase.

Get Smart Program

The Contractor will manage the customer intake process via the program web portal developed by IRWD. The Contractor will be responsible for contacting customers who register via the portal to schedule an on-site appointment to determine customer's eligibility for the direct installation of weather-based irrigation controllers. After performing the installation for qualified customers, the Contractor will leave behind

outreach materials for rebates and other programs for additional outdoor direct installation measures as determined by IRWD. The Contractor will provide the names and addresses of customers interested in outdoor measures to IRWD.

The Contractor will replace the preexisting non-weather-based irrigation controller. The Contractor will determine if an 8-zone or 16-zone controller should be installed. The installation includes connection to customer Wi-Fi router, mobile app installation on the customer's mobile device, individual zone set-up, and customer tutorial.

If the irrigation controller is exposed to outdoor elements an outdoor enclosure will be installed over the controller to ensure the proper functioning of the controller. At the end of the installation, the installer will perform post installation tests to ensure that the weather-based irrigation controller is operating all irrigation zones that were previously active and ensure the customer understands how to operate the new controller. The installer will also provide contact information for the controller's customer support team.

The Contractor will recycle the preexisting irrigation controller.

#### Payment

Invoices will be submitted routinely and include information on the customer name, address, and quantity of 8-Zone WBICs, 16-zone WBICs, and outdoor WBIC covers installed.

#### **3. Time of Performance.**

The time from the onset of program marketing to complete installation varies depending on customer participation. Payments are made for completed installations only.

**4. Additional Services.** If the District requests Contractor to provide services in addition to those specified above, Contractor shall develop a scope of work detailing the specific tasks to be completed and the estimated costs to complete those tasks. Contractor shall not perform any additional services unless authorized to provide those additional services are specified in a variance to this Agreement signed by both parties.

## EXHIBIT 2

### FEE SCHEDULE

1. **Contractor's Compensation.** The parties agree that the total of all fees paid to the Contractor for the performance of all services set forth in Exhibit 1, including normal revisions (hereafter the "Services"), and for all authorized reimbursable expenses, must not exceed the total sum of \$350,000.
2. **Billable Rates.** Contractor must be paid for the performance of Services on an hourly rate, daily rate, flat fee, lump sum or other basis, as set forth in the Schedule of Charges for Services, attached hereto and incorporated by this reference.
3. **Contractor's Reimbursable Expenses.** Reimbursable expenses are limited to actual expenditures of Contractor for expenses that are necessary for the proper completion of the Services and are only be payable if specifically authorized in writing in advance by District.
4. **Payments to Contractor.**
  - a. Undisputed invoices must be paid by the District within 30 days after receipt of such invoices. Contractor must be responsible for the cost of supplying all documentation necessary to verify the invoiced amounts to the satisfaction of District.
  - b. All invoices submitted by Contractor must contain the following information:
    - i. Date of Invoice Issuance
    - ii. Sequential Invoice Number
    - iii. Purchase Order Number
    - iv. Total Agreement Not-to-Exceed Amount
    - v. Amount of this Invoice (Itemize all reimbursable expenses, if any)
    - vi. Database with customer address, name, water account number, model and gallons per flush of toilet installed, and the installation date.



c. Billings that do not conform to the format outlined above must be returned to Contractor for correction. District must not be responsible for delays in payment to Contractor resulting from Contractor's failure to comply with the invoice format described below.

d. Requests for payment must be sent to the District Representative.

**5. Contractor's Accounting Records.** During performance of this Agreement and for a period of three (3) years after completing all Services and Additional Services hereunder, Contractor must maintain all accounting and financial records related to this Agreement, including, but not limited to, records of Contractor's costs for all Services and Additional Services performed under this Agreement and records of Contractor's Reimbursable Expenses, in accordance with generally accepted accounting practices, and must keep and make such records available for inspection and audit by representatives of the District upon reasonable written notice.

## SCHEDULE OF CHARGES FOR SERVICES FOR IRVINE RANCH WATER DISTRICT

PRICE PER INSTALLATION

(INCLUDES EQUIPMENT, INSTALLATION, RECYCLING, TAXES AND ANY ADDITIONAL FEES)

<b>Measure Description</b>	<b>Housing Type</b>	<b>Cost Each</b>
Rachio 3 8-Zone Smart Sprinkler Controller with Wi-Fi Connection, Mobile App Installation, Zone Set-Up, and Customer Tutorial	Single Family	408.87
Rachio 3 16-Zone Smart Sprinkler Controller with Wi-Fi Connection, Mobile App Installation, Zone Set-Up, and Customer Tutorial	Single Family	478.85
Rachio Outdoor Enclosure and Install	Single Family	38.65

## EXHIBIT 3

### INSURANCE REQUIREMENTS

- 1. General.** CONTRACTOR shall not commence or continue to perform any Services unless they, at their own expense, have in full force and effect all required insurance. CONTRACTOR shall not permit any Subcontractor to perform Services on this project until the same insurance requirements have been complied with by such Subcontractor.
- 2. Types of Insurance.** CONTRACTOR shall obtain and maintain for the full period of the Agreement are Worker's compensation insurance, commercial general liability insurance, and business automobile liability insurance.
- 3. Insurer Rating.** Insurers shall have financial and size ratings of at least an "A", VIII in accordance with the most current Best's Key Rating Guide, Property Casualty.
- 4. Evidence of Insurance.** As evidence that specified insurance coverage has been obtained for the period of the Agreement, the CONTRACTOR shall provide, on forms satisfactory to District, including endorsements providing that policies cannot be canceled or reduced except on thirty (30) calendar days written notice by the insurance carrier of cancellation or non-renewal (ten (10) calendar days notice for non-payment of premium). Industry standard forms for "certificate on insurance" from ACORD are accepted, provided that appropriate language regarding notice of non-renewal or cancellation is provided on the form. Contractor shall provide proof that policies of insurance required herein expiring or terminated during the term of this Agreement have been renewed or replaced with other policies providing coverage meeting the requirements hereof. Such proof will be furnished at least fourteen (14) calendar days prior to the expiration of termination of the coverages. No alteration or substitution of said forms will be allowed. Certified copies of insurance policies from the insurance company affording coverage shall be provided by CONTRACTOR upon request.
- 5. Noncompliance.** DISTRICT reserves the right to withhold payments to CONTRACTOR in the event of material noncompliance with insurance requirements.
- 6. Limitation of Contractor liability.** The requirements set forth herein as to the types and limits of insurance coverage to be maintained by the CONTRACTOR and any approval of said insurance by the DISTRICT or its insurance consultant(s) is not intended to and shall not in any manner limit or qualify the liabilities and obligations otherwise assumed by the CONTRACTOR pursuant to the Agreement, including but not limited to the provisions concerning indemnification.
- 7. Worker's Compensation Insurance.** CONTRACTOR shall provide worker's compensation insurance coverage for no less than the statutory limits and employer's liability insurance coverage, with limits not less than those listed in 7.A, for all persons

whom CONTRACTOR employs or may employ in carrying out the Services. This insurance shall be in strict accordance with the requirements of the most current and applicable state worker's compensation insurance laws.

- A. Employer's Liability Insurance shall be for not less than:
  - \$1,000,000 Each Accident
  - \$1,000,000 Each Disease – Policy Limit
  - \$1,000,000 Each Disease – Each Employee

B. Notwithstanding the requirements of Section 3, above, DISTRICT will accept Workers Compensation Insurance from the State Compensation Fund (State Fund) that is not rated and that is evidenced on the State Fund's certificate form. Except as provided above with respect to State Fund, all other insurance shall comply with all requirements of this Exhibit.

**8. Waiver of right of subrogation.** The worker's compensation insurance shall include a waiver of right of subrogation against the DISTRICT, the District Board of Directors, DISTRICT's Representative, the Engineer/Architect, owners of record of all private properties on which entry will be made, and their consultants, and each of their officers, agents, and employees but only while acting in their capacity as such and only in respect to operations of the original named insured, their Subcontractors, agents, officers, and employees in the performance of the Services.

**9. Commercial General Liability Insurance.** CONTRACTOR shall provide commercial general liability insurance coverage equivalent to Insurance Services Office Form CG 00 01, with limits not less than those specified in 9.A.

- A. Commercial General Liability Insurance shall be for not less than:

Bodily Injury	Products/Completed
Property Damage	Completed
Personal Injury	Operations
<u>(Occur/Aggr)</u>	<u>(Occur/Aggr)</u>
\$1M/\$2M	\$1M/\$2M

B. Included in such insurance shall be blanket contractual liability coverage and severability of interests (no cross suits exclusion).

C. The commercial general liability insurance shall be primary and non-contributory and include as additional insureds: DISTRICT, the District Board of Directors, DISTRICT's Representative, the Engineer/Architect, owners of record of all private properties on which entry will be made, and their consultants, and each of their officers, agents, and employees but only while acting in their capacity as such and only in respect to operations of the original named insured, their Subcontractors, agents,

officers, and employees in the performance of the Services and shall be evidenced by ISO CG 20 33 07 04 endorsement form or equivalent.

D. Such insurance shall have a deductible or self insured retention not to exceed \$25,000.

**10. Automobile Liability Insurance.** CONTRACTOR shall provide business automobile liability insurance coverage equivalent to Insurance Services Office Form CA 00 01, with limits not less than those specified in 10 A. Business automobile liability insurance coverage shall be provided for all owned, non-owned and hired vehicles.

A. Automobile liability insurance shall be for not less than:

\$2,000,000 Bodily injury and property damage each occurrence.

**11. CONTRACTOR's Responsibility Not Limited by Insurance.** Nothing contained in these insurance requirements is to be construed as limiting the extent of the liability of CONTRACTOR or CONTRACTOR's sureties.

**12. Maintaining Insurance.** The maintenance of proper insurance in conformity with the Contract Documents is a material element of this Agreement. If at any time during the life of the Agreement, including the guarantee period, or any extension, CONTRACTOR fails to maintain the required insurance in full force and effect, the Services shall be discontinued immediately and all payments due or that become due to CONTRACTOR shall be withheld until notice is received by DISTRICT that the required insurance has been restored to full force and effect and that the premiums have been paid for a period satisfactory to DISTRICT. Failure to maintain or renew coverage or to provide evidence of renewal upon request of DISTRICT may be treated by DISTRICT as a material breach of contract.

## EXHIBIT 4

### SUPPLEMENTARY CALIFORNIA PUBLIC WORKS REQUIREMENTS

If the Scope of Work includes construction work to be performed during the construction phase or design and preconstruction phases of construction, including, but not limited to, inspection and land surveying work, or work to be performed during the post-construction phases of construction, including, but not limited to, all cleanup work at the jobsite, or any other work that has been determined by the California Director of Industrial Relations to constitute "public work," that portion of the Scope of Work is subject to the following provisions which amend and supplement the contract, or to the extent of any inconsistency supersede and take precedence over the contract.

**SECTION 1. Labor.** The requirements of this Section apply to the public work portion of the Scope of Work, if more than \$1,000 (Labor Code 1771).

#### 1.01 Registration.

Qualification to engage in the performance of any of the work for this project requires proof of the contractor's or subcontractor's current registration and qualification to perform public work pursuant to Labor Code Section 1725.5. No contract or subcontract entered into without proof of the contractor's or subcontractor's current registration.

1.02 *Compliance Monitoring; Registration; Notices.* The project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

Qualification to engage in the performance of any of the work requires that CONTRACTOR and subcontractors maintain their current registration to perform public work pursuant to Labor Code Section 1725.5.

CONTRACTOR shall post on the jobsite all notices as prescribed by law or regulation.

1.03 *Prevailing Wage Requirements.* Under the provisions of the California Labor Code, the Director of the Department of Industrial Relations has determined the prevailing rate of wages for the locality in which the Work is to be performed and IRWD has adopted said prevailing rate of wages. A copy of these prevailing rates is on file at the office of IRWD and shall be made available to any interested party on request. A copy of such prevailing wage rates shall be posted on the jobsite by CONTRACTOR.

CONTRACTOR shall comply with Labor Code Section 1775. In accordance with said Section 1775, CONTRACTOR shall forfeit as a penalty to IRWD, up to two hundred dollars (\$200), as determined by the Labor Commissioner, for each calendar day or

portion of a day for each worker paid less than the stipulated prevailing rates for such work or craft in which such worker is employed for any work done under the contract by them or, except as provided by the Labor Code, by any Subcontractor under them in violation of the provisions of the Labor Code, and in particular, Labor Code Sections 1770 to 1780, inclusive. In addition to said penalty and pursuant to Section 1775, the difference between the stipulated prevailing wage rates and the amount paid to each worker for each calendar day or portion of a day for which each worker was paid less than the stipulated prevailing wage rate shall be paid to each worker by CONTRACTOR.

CONTRACTOR shall forfeit as a penalty to IRWD \$25 for each worker employed in the execution of the Work by CONTRACTOR or any Subcontractor under them for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any one (1) calendar day and forty (40) hours in any one calendar week in violation of the provisions of the Labor Code, in particular, Section 1810 to Section 1815 thereof, inclusive, except that work performed by employees of CONTRACTOR in excess of eight (8) hours per day and forty (40) hours during any one (1) week shall be permitted upon compensation for all hours worked in excess of eight (8) hours per day at not less than one and one half (1 1/2) times the basic rate of pay as provided in said Section 1815.

1.04 *Payroll Records.* CONTRACTOR and each of their Subcontractors shall keep an accurate payroll record, showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed by them in connection with the Work. The records shall be in a format prescribed by the Labor Commissioner. The records may consist of printouts of payroll data maintained as computer records, if the printouts are in a format prescribed by the Labor Commissioner and are verified as required under this paragraph. Each payroll record shall contain or be verified by a written declaration that it is made under penalty of perjury, stating that (1) the information contained in the payroll record is true and correct, and (2) CONTRACTOR (or the Subcontractor, as the case may be) has complied with the requirements of Sections 1771, 1811 and 1815 of the Labor Code for any of the work performed by their employees. The payroll records shall be submitted monthly to IRWD and directly to the Labor Commissioner and shall be available for inspection at all reasonable hours at the principal office of CONTRACTOR (or the Subcontractor, as the case may be) to the employee or their authorized representative on request, to the Division of Labor Standards Enforcement on request, and the public, provided that requests by the public must be made through IRWD or the Division of Labor Standards Enforcement in accordance with the requirements of Labor Code Section 1776. Copies shall be provided to the requesting entity within ten (10) days after receipt of a written request. Any copy of a payroll record made available to the public or any public agency by IRWD shall be marked or obliterated to prevent disclosure of individual workers' names, addresses and social security numbers. CONTRACTOR shall inform IRWD of the location address of payroll records of CONTRACTOR and each Subcontractor and notify

IRWD of a change in any such location within five (5) working days. In the event CONTRACTOR or a subcontractor fails to comply with the above-specified 10-day period, CONTRACTOR or the subcontractor shall forfeit as a penalty to IRWD one hundred dollars (\$100) for each calendar day or portion of a day for each worker until strict compliance is effectuated. CONTRACTOR is not subject to a penalty under this paragraph due to the failure of a subcontractor to comply with this paragraph.

1.04 *Apprentices.* (applicable if contract is \$30,000 or more) CONTRACTOR and any Subcontractor under them shall comply with the requirements of Sections 1777.5 and 1777.6 of the Labor Code in the employment of apprentices. Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the Department of Industrial Relations. Willful violations of Section 1777.5 will result in forfeiture of one hundred dollars (\$100) for each calendar day of noncompliance, or up to three hundred dollars (\$300) for each calendar day of noncompliance for second and subsequent violations within a three-year period that result in apprenticeship training not being provided as required by the Labor Code, and may also result in debarment sanctions in the case of violations, as determined by the Labor Commissioner pursuant to Section 1777.7. Section 1777.7 also imposes requirements that, if not observed by CONTRACTOR, will result in CONTRACTOR's liability for Subcontractor violations of Section 1777.5.

1.05 *Subcontracting.* CONTRACTOR is prohibited from performing any of the work with a subcontractor who is ineligible to perform such Work pursuant to Section 1777.1 or 1777.7 of the Labor Code. CONTRACTOR agrees that in accordance with Public Contract Code Section 6109, a subcontract with an ineligible subcontractor is void as a matter of law, amounts paid to the subcontractor shall be returned to IRWD, and CONTRACTOR is responsible for paying wages of the subcontractor's employees if the subcontractor is allowed to perform any part of the work.

1.06 *CONTRACTOR'S Certificate Regarding Workers' Compensation* (Labor Code Section 1861): I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of the work of this Contract.

**SECTION 2. Site Conditions.** The requirements of this Section apply to the public work portion of the Scope of Work, subject to the applicability further specified below.

2.01 *Utilities* (applicable if the contract with IRWD is made pursuant to an invitation for bids and includes removal, relocation or protection of main or trunkline utility facilities – Government Code Section 4215)



CONTRACTOR shall be compensated by IRWD for the costs of locating, repairing damage not due to the failure of CONTRACTOR to exercise reasonable care, and removing, relocating, protecting, or temporarily maintaining main or trunk line utility facilities not indicated with reasonable accuracy in the plans and specifications, and for equipment in the project necessarily idled during such work. Alternatively IRWD may change the project grade or alignment to avoid such removal, relocation or protection or make arrangements with the owner of the utility for such work to be done at no cost to CONTRACTOR. No forfeiture due to delay shall be made because of any delays in the completion of the Work due to the failure of IRWD or the owner of a utility to provide for removal or relocation of main or trunk line facilities not indicated in the plans or specifications with reasonable accuracy.

IRWD is not responsible for removal, relocation or temporary maintenance of (i) main or trunk line utilities or other structures which are in the position shown on the plans, or (ii) service connections, and CONTRACTOR shall bear all expenses incidental thereto. Such work shall be done in a manner satisfactory to the owner of the utility or service connection, it being understood that the owner has the option of doing such work with their own forces or permitting the work to be done by CONTRACTOR. It shall be the responsibility of CONTRACTOR to investigate to find out whether or not this cost is required to be borne by the owner of the utility.

2.02 *Excavation Plans for Worker Protection* (applicable if the public work portion is over \$25,000, and involves excavation of any trench five (5) feet or more in depth – Labor Code Section 6705)

CONTRACTOR shall submit to IRWD for acceptance, in advance of excavation, a detailed plan showing the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during the excavation of any trench or trenches five (5) feet or more in depth. The plan shall be prepared specifically for the work by a registered civil or structural engineer who is licensed by the State of California. The plan shall be in an original format, not a reproduced copy, and shall include the engineer's original signature and seal. As a part of the plan, a note shall be included stating that the registered civil or structural engineer certifies that the plan complies with the CAL OSHA Construction Safety Orders, or stating that the registered civil or structural engineer certifies that the plan is not less effective than the shoring, bracing, sloping, or other provisions of the safety orders.

All shoring submittals shall include surcharge loads from adjacent embankments, construction loads and spoil bank. The submittal shall indicate the minimum horizontal distance from the top of trench to the edge of all surcharge loads for all cases of shoring and side slopes.

The detailed plan showing the design of shoring, etc., which CONTRACTOR is required to submit to IRWD for acceptance in advance of excavation, will not be accepted if the plan

is based on subsurface conditions which are more favorable than those revealed by the investigations made by IRWD or the Engineer/Architect or their consultants; nor will the plan be accepted if it is based on soils related design criteria that are less restrictive than the criteria set forth in the report on the investigations of subsurface conditions.

Nothing contained in this paragraph shall be construed as relieving CONTRACTOR of the full responsibility for providing shoring, bracing, sloping, or other provisions which are adequate for worker protection.

**2.03 Differing Physical Conditions.** (applicable if the public work portion involves excavation more than four (4) feet in depth – Public Contract Code Section 7104)

CONTRACTOR shall promptly notify IRWD of the following work site conditions (hereinafter called differing physical conditions), in writing, upon their discovery and before they are disturbed: (1) any material that CONTRACTOR believes may be material that is a hazardous waste, as defined in Section 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law; (2) subsurface or latent physical conditions differing from those indicated by information about the site made available to bidders prior to the deadline for submitting bids; (3) unknown physical conditions of any unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character being performed.

IRWD will promptly investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in CONTRACTOR's cost of, or the time required for, performance of any part of the work, shall issue a change order under the procedures described in the Contract.

In the event that a dispute arises between IRWD and CONTRACTOR whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in CONTRACTOR's cost of, or time required for, performance of any part of the work, CONTRACTOR shall not be excused from any scheduled completion date provided for by the Contract, but shall proceed with all work to be performed under the Contract. CONTRACTOR shall retain any and all rights provided either by the Contract or by law which pertain to the resolution of disputes and protests between the contracting parties.

CONTRACTOR shall not be required to resume work in connection with a condition involving hazardous waste until after IRWD has obtained any required permits related thereto and delivered to CONTRACTOR written notice specifying any special conditions under which such work may be resumed safely.

**SECTION 3. Materials.** The requirements of this Section apply to the public work portion of the Contract, pursuant to Public Contract Code §3400.

3.01 *Substitutions*. Whenever materials or equipment are specified or described in the Plans or specifications by using the name of a proprietary item or the name of a particular supplier, the naming of the item is intended to establish the type, function and quality required. Unless the name is followed by words indicating that no substitution is permitted, the name shall be deemed to be followed by the words “or approved equivalent” and materials or equipment of other suppliers may be accepted by IRWD if sufficient information is submitted by CONTRACTOR to allow IRWD to determine that the material or equipment proposed is equivalent to that named. Approval of proposed equivalent materials or equipment is at the sole discretion of IRWD. No substitute shall be ordered or installed without IRWD’s prior written acceptance.

CONTRACTOR assumes sole responsibility for verifying the proposed substitute items are in accordance with the requirements of the contract documents, and that the dimensions, arrangement, design and construction details and all other features of substitute items are suitable for their intended purpose.

In the event that a substitute item, and said difference was not expressly identified in CONTRACTOR’s request for the substitution, or the incorporation of the substitute into the work results in a change(s) to the work or in the function or general design of the project, which was not expressly identified in CONTRACTOR’s request for the substitution, IRWD may require the removal and replacement of the substitute at CONTRACTOR’s sole expense.

CONTRACTOR may submit data substantiating requests for substitutions of equivalent items at any time after notice of award. Under no circumstances shall CONTRACTOR be entitled to an increase in Contract Time as a result of the submission or review of a substitution request.

**SECTION 4. Claims**. The requirements of this Section apply to the public work portion of the Contract, pursuant to Public Contract Code §20104.

4.01 *Resolution of Construction Claims*. (applicable to a claim meeting the below-described criteria – Public Contract Code Section 20104)

This Section is intended as a summary of the provisions of Article 1.5 (commencing with Section 20104) of Chapter 1 of Part 3 of Division 2 of the Public Contract Code (“Claims Resolution Statute”) and is subject to the actual provisions of the Claims Resolution Statute. This Section shall govern the resolution of any claim of \$375,000 or less which may be made by CONTRACTOR.

“Claim” is defined as CONTRACTOR’s demand for (i) a time extension, (ii) money or damages arising from the work, payment for which is not otherwise expressly provided for or CONTRACTOR is not otherwise entitled to, or (iii) an amount disputed by IRWD.

CONTRACTOR shall make all claims in writing and include the necessary substantiating documents. Any claim which is intended to invoke the procedures under the Claims Resolution Statute shall specify that the claim is being made pursuant to the Claims Resolution Statute. All claims by CONTRACTOR must be filed on or before the date of final payment.

IRWD shall respond in writing, within forty-five (45) days of receipt of a claim less than \$50,000 and within sixty (60) days of receipt of a claim over \$50,000 and less than \$375,000, or IRWD may request, in writing, within thirty (30) days of receipt of the claim, any additional documentation supporting the claim or relating to defenses or claims IRWD may have against CONTRACTOR. If additional information is thereafter required, it shall be requested and provided upon mutual agreement of IRWD and CONTRACTOR. If IRWD requests additional documentation, IRWD’s written response to the claim shall be submitted to CONTRACTOR, (i) within fifteen (15) days after receipt of the additional documentation for a claim less than \$50,000 and within thirty (30) days after receipt of the additional documentation for a claim over \$50,000 and less than \$375,000, or (ii) within the same time period as used by CONTRACTOR in producing the additional documentation, whichever is greater.

If CONTRACTOR disputes IRWD’s written response, or IRWD fails to respond within the time prescribed, CONTRACTOR may, by giving written notice to IRWD within fifteen (15) days of receipt of IRWD’s response (or within fifteen (15) days of IRWD’s failure to respond), demand an informal conference to meet and confer for settlement of the issues in dispute. Upon such demand, IRWD shall schedule a “meet and confer” conference within thirty (30) days.

If after the “meet and confer” conference, any portion of the claim remains in dispute, CONTRACTOR may file a claim pursuant to Government Code Section 900 et seq. If a court action is thereafter filed to resolve the claim, the court must, within the time specified by law, submit the matter to nonbinding mediation unless waived by mutual stipulation of IRWD and CONTRACTOR. If after the mediation process, the matter remains in dispute, the case must then be submitted to judicial arbitration pursuant to the applicable law.

**4.02 Third Party Claims.** In accordance with Public Contract Code Section 9201, IRWD shall timely notify CONTRACTOR if IRWD receives any third-party claim relating to the Work. IRWD shall be entitled to recover from CONTRACTOR the reasonable costs incurred by IRWD in providing such notification.

**SECTION 5. Payment and Retention.** The requirements of this Section apply to construction contracts.

**5.01 *Progress Payments.***

The following is a summary of the provisions of Article 1.7 of Chapter 1 of Part 3 of Division 2 (commencing with Section 20104.50) of the Public Contract Code, regarding progress payments, and is subject to the actual provisions of that statute. For purposes of this Section, a “progress payment” includes all payments due CONTRACTOR, except that portion of the final payment designated under this Agreement as retention.

If IRWD fails to make any progress payment within thirty (30) days after receipt of an undisputed and properly submitted progress payment request from CONTRACTOR, IRWD shall pay interest to CONTRACTOR equivalent to the legal rate set forth in subdivision (a) of Section 685.010 of the Civil Code of Procedure.

Upon receipt of a progress payment request, IRWD shall (i) review each payment request as soon as practicable after receipt for the purpose of determining that the payment request is a proper payment request, and (ii) return to CONTRACTOR, as soon as practicable but not later than seven (7) days after receipt, any payment request determined not to be a proper payment request suitable for payment. A request returned pursuant to this paragraph shall be accompanied by a document setting forth in writing why the payment request is not proper. The number of days available to IRWD to make a payment without incurring interest shall be reduced by the number of days by which IRWD exceeds the seven (7) day return requirement.

**5.02 *Progress Payment Retention.*** (Applies if performance retention will apply.) IRWD shall retain five (5) percent of such estimated value as part security for fulfillment of the Contract by CONTRACTOR and shall pay to CONTRACTOR the balance of such estimated value after deducting all previous payments and all sums to be kept or retained under the terms of the Contract. Nothing herein shall require payment of a disputed amount or limit IRWD’s ability to withhold an amount in respect of a disputed amount as provided for in Section 7107 of the Public Contract Code. The retention payment shall not be due and payable until the expiration of thirty-five (35) days from the date of IRWD’s recording of a notice of completion of the work in the office of the County Recorder.

**5.03 *Substitution of Securities for Amounts Withheld.*** Pursuant to Section 22300 of the Public Contract Code, CONTRACTOR may substitute securities for any monies withheld by IRWD to ensure performance of the Work. At the request and expense of CONTRACTOR, securities equivalent to the amount withheld shall be deposited with IRWD or with a state or federally chartered bank in California as the escrow agent. Such securities shall be released to CONTRACTOR at the same time as amounts retained would be released upon satisfactory completion of the work, to the extent such

securities have not previously been utilized or are not then being held by IRWD or the escrow agent for purposes as provided in this Contract. Alternately, CONTRACTOR may request, and IRWD shall make, payment of retention earned directly to the escrow agent at the expense of CONTRACTOR.

If the securities are deposited with IRWD, IRWD shall determine their value. IRWD shall also be entitled in their discretion to sell, redeem, or otherwise convert them or portions thereof to cash in order to apply them to any of the purposes set forth in the Contract for which amounts may be withheld from CONTRACTOR and used. CONTRACTOR shall furnish such documents as are deemed necessary by IRWD to enable IRWD to make such sales, redemptions, or conversions. If the securities are deposited with an escrow agent, CONTRACTOR, escrow agent and IRWD shall execute IRWD's form entitled "Escrow Agreement for Security Deposits in Lieu of Retention."

**SECTION 6. Miscellaneous.** The requirements of this Section apply as specified.

6.01 *Audit.* (applicable if the contract exceeds \$10,000 – Government Code 8546.7)

Pursuant to Government Code Section 8546.7, this contract, and CONTRACTOR and IRWD as the contracting parties, are subject to the examination and audit of the California State Auditor, at the request of IRWD or as part of any audit of IRWD, for a period of three years after the final payment under the contract.

6.02 *Notice of Taxable Possessory Interest.*

The terms of this contract may result in the creation of a possessory interest. If such a possessory interest is vested in CONTRACTOR, CONTRACTOR may be subjected to the payment of property taxes levied on such interest.

6.03 *Antitrust Claims Assignment.* (applicable if contract is awarded by competitive bidding)

In entering into a public works contract or subcontract to supply goods, services, or materials pursuant to a public works contract, CONTRACTOR or subcontractor offers and agrees to assign to the awarding body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Section 15) or under the Cartwright Act (Chapter 2, commencing with Section 16700, of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time the awarding body tenders final payment to CONTRACTOR, without further acknowledgment by the parties.

6.04 *License.*

CONTRACTOR shall possess a State of California license for the contracting class(es) applicable to the work.

6.05 *Delays.* (Applies if contract documents specify damages for failure to complete work by applicable contract times.)

No forfeiture due to delay shall be made because of any delays in the completion of the work due to unforeseeable causes beyond the control and without the fault or negligence of CONTRACTOR (including but not restricted to acts of God or of the public enemy, acts of the government, acts of IRWD, or acts of another contractor in the performance of a contract with IRWD, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather or delays caused by the failure of IRWD, or the owner of a utility to provide for removal or relocation of main or trunk line facilities not indicated in the plans or specifications with reasonable accuracy). Any such delays shall not entitle CONTRACTOR to any additional compensation, and the sole remedy of CONTRACTOR shall be an extension of time obtained in accordance with the contract; the only exception shall be if the delay has been caused solely by acts for which IRWD is responsible and which delay is unreasonable under the circumstances involved, is not within the contemplation of the parties, and continues after CONTRACTOR's notice to IRWD of such acts.

**EXHIBIT 5**

**SPECIAL PROVISIONS**

**(e.g., project schedule, form of customer participation releases and other items not covered elsewhere)**



## EXHIBIT 6

### NON-CONSULTANT SERVICES VARIANCE

**Purpose.** This procedure shall be used to identify, estimate, and report variances to the scope of work in non-consultant services agreements between IRWD and a contracting engineer or other type of contractor. A variance may be initiated by either IRWD's Project Manager or by the Engineer/Contractor.

**Variance.** The Variance shall be used to identify all changes to the original scope of work, budget, and schedule for any study, design, or construction phases services.

**Engineer/Contractor Initiates Variance.** If a Variance is initiated by the Engineer/Contractor, the Engineer/Contractor shall prepare the Variance including the Description of Variance, the Engineering & Management Cost Impact, the Schedule Impact, and the Required Approval Determination sections. The Engineer/Contractor shall then sign the Variance and submit it to the IRWD Project Manager for action.

**IRWD Initiates Variance.** If a Variance is initiated by IRWD's Project Manager, the IRWD Project Manager shall complete the Description of Variance and fill-in the Total Original Contract amount and Previous Variances amount (if any). The Variance shall then be given to the Engineer/Contractor to complete the Cost Impact, the Schedule Impact, and the Required Approval Determination sections. The Engineer/Contractor shall then sign the Variance and submit it to the IRWD Project Manager for action.

**Variance Processing.** Once a Variance is signed and submitted by the Engineer/Contractor, the IRWD Project Manager shall:

1. Enter the Variance's details onto a Variance Register for the project,
2. Review, sign, and date the Variance, and
3. Obtain appropriate approvals.

**Notice to Proceed.** Work covered by a Variance may proceed upon signing by the department Director. A copy of the Variance, signed by the Director, shall be the Engineer's/Contractor's Notice to Proceed with the required work.

**Contractual Authorization.** Work covered by a Variance which has been signed by the Director may require final approval from the General Manager, Committee, or Board based upon the requirements of the Procurement Policy. These approvals may be obtained after the Engineer/Contractor has been given a copy of the Variance signed by the Director (the Engineer's/Contractor's Notice to Proceed). The IRWD Project Manager shall promptly thereafter prepare a memo to the General Manager, Committee and/or Board agenda items(s) for approvals as required. Once the Variance is properly approved, it modifies the existing Engineer's/Contractor's agreement.

**Financial Authorization.** An approved Variance may require any of the following:

1. A Capital Budget increase,
2. A new Expenditure Authorization,
3. An extension to an existing Purchase Order, and/or
4. A new Purchase Order.

It is the IRWD Project Manager's responsibility to process the necessary paperwork to grant the required financial authorization

**IRVINE RANCH WATER DISTRICT  
NON-CONSULTANT SERVICES VARIANCE**

Project Title: \_\_\_\_\_ File No.: \_\_\_\_\_  
 \_\_\_\_\_ Date: \_\_\_\_\_  
 \_\_\_\_\_ Variance No.: \_\_\_\_\_  
 Project No.: \_\_\_\_\_ Project No.: \_\_\_\_\_  
 Purchase Order No.: \_\_\_\_\_

Originator:     IRWD         ENGINEER/CONTRACTOR         Other (Explain) \_\_\_\_\_

Description of Variance (*attach any back-up material*):

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Engineering & Management Cost Impact:

Classification	Manhours	Billing Rate	Labor \$	Direct Costs	Subcon. \$	Total \$
<b>Total \$ =</b>						

Schedule Impact:

Task No.	Task Description	Original Schedule	Schedule Variance	New Schedule

Required Approval Determination:

Total Original Contract                    \$ _____ Previous Variances \$ _____ This Variance                    \$ _____ Total Sum of Variances                    \$ _____ New Contract Amount                    \$ _____ Percentage of Total Variances to Original Contract                    _____%	<input type="checkbox"/> General Manager: Single Variance less than or equal to \$30,000. <input type="checkbox"/> Committee: Single Variance greater than \$30,000, and less than or equal to \$60,000. <input type="checkbox"/> Board: Single Variance greater than \$60,000. <input type="checkbox"/> Board: Cumulative total of Variances greater than \$60,000, or 30% of the original contract, whichever is higher.
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ENGINEER/CONTRACTOR: \_\_\_\_\_  
 Company Name

IRVINE RANCH WATER DISTRICT

Project Engineer/Manager                    \_\_\_\_\_                    Date

Department Director                    \_\_\_\_\_                    Date

Engineer's/Contractor's Management                    \_\_\_\_\_                    Date

General Manager/Comm./Board                    \_\_\_\_\_                    Date



No. 18

Closed Session

Conference with Real Property Negotiators

Government Code Sec. 54956.8

June 25, 2018

Submitted by: P. Weghorst *PW*

Approved by: Paul A. Cook *cc for PC*

## ACTION CALENDAR

### PROPOSED TERMS FOR A SHARED RELIABILITY PILOT PROGRAM

#### SUMMARY:

IRWD is proposing to implement a Shared Reliability Pilot Program with the Municipal Water District of Orange County (MWDOC). This program would provide MWDOC's member agencies with extraordinary supply from IRWD's Water Banking Projects during major droughts, water supply interruptions and other emergency conditions. Draft general terms have been prepared with input from the Supply Reliability Programs Committee that describe the proposed program and define the roles that IRWD and MWDOC would fulfill in implementing the pilot program. Price and payment terms were also prepared with Committee input that will be considered by the Board of Directors under a separate item on tonight's agenda. Staff recommends that the Board approve the general terms that describe the program and define the roles of IRWD and MWDOC in implementing the program, and contingent on the Board's approval of the price and payment terms, authorize staff and legal counsel to work with MWDOC and its legal counsel to prepare a draft program agreement for the Board's consideration.

#### BACKGROUND:

At the Strategic Planning Workshop that was held with the Board on July 7, 2017, staff presented options for implementing a Shared Reliability Pilot Program with MWDOC. The options would provide MWDOC's member agencies with extraordinary supply benefits from IRWD's Water Banking Projects during major droughts, water supply interruptions and other emergency conditions. The same options were reviewed with the Supply Reliability Programs Committee on July 20, 2017. At the Committee meeting, the Committee identified a preference for the option where MWDOC would pay IRWD annual option payments for the right to call on up to 5,000 acre-feet water from IRWD's Water Banking Projects.

Following the meeting, staff presented the option based program concepts to management at MWDOC. At the meeting, staff received a favorable response and MWDOC requested that IRWD provide proposed terms for the program.

#### Conceptual Draft Terms:

In response to MWDOC's request, staff prepared conceptual draft terms and costs for the proposed Shared Reliability Pilot Program. The conceptual terms were developed considering input received from the Committee on July 20, 2017 and guidance provided in the Board's policy principles. These conceptual terms were reviewed with the Committee on October 24, 2017. At the meeting, the Committee provided positive feedback on the proposed conceptual terms and requested that the duration of the pilot program be increased from five to seven years.

In January 2018, the IRWD approved policy principles in support of the option based program. These principles provided further guidance for discussions with MWDOC on draft terms and implementing the proposed Shared Reliability Pilot Program.

Joint Ad-Hoc Committee Meeting:

On May 3, 2018, IRWD and MWDOC held a Joint Ad Hoc Committee meeting to discuss the opportunity of establishing a Shared Reliability Pilot Program. The focus of the meeting was to inform the participating MWDOC Board members on the option program concepts and to discuss how the program might be administered by MWDOC. At the meeting, IRWD committed to submitting a draft term sheet that includes price and payment elements that could be discussed at the next Joint Ad Hoc Committee meeting.

Draft Program Terms:

On June 21, 2018, staff reviewed with the Committee slightly revised price and payment terms for the proposed Shared Reliability Pilot Program. These price payment terms will be considered by the Board of Directors in a separate item on tonight's agenda. Exhibit "A" contains draft general terms from October 2017 that describe the program and that define the roles that IRWD and MWDOC would perform in the Shared Reliability Pilot Program. Staff recommends that the Board approve the general terms contained in Exhibit "A" and contingent on the Board's approval of the price and payment terms, authorize staff and legal counsel to work with MWDOC and its legal counsel to prepare a draft agreement for the Board's consideration that is based on the combined terms.

FISCAL IMPACTS:

The Shared Reliability Pilot Program would be implemented consistent with Board policy requiring IRWD to recover a proportional share of its capital investments in the Water Banking Projects as well as to recover the costs of water supply as well as appropriate operations, maintenance, replacement and administrations costs. The recovery of these costs would ensure that IRWD's customers are not financially impacted.

ENVIRONMENTAL COMPLIANCE:

Final Environmental Impact Reports (EIRs) for the Strand and Stockdale Integrated Banking Projects were prepared, certified and approved in compliance with California Environmental Quality Act (CEQA) of 1970 as amended, codified at California Public Resources Code Sections 21000 et seq., and the State CEQA Guidelines in the Code of Regulations, Title 14, Division 6, Chapter 3. Rosedale-Rio Bravo Water Storage District as lead agency, and IRWD as responsible agency, filed Notices of Determinations for the Strand and Stockdale Integrated Banking Projects with the Counties of Kern and Orange. Staff and legal counsel are evaluating the EIRs to determine whether further environmental review is needed to implement the Shared Reliability Pilot Program.

COMMITTEE STATUS:

This item was reviewed with the Supply Reliability Programs Committee on October 24, 2017 and June 21, 2018.

RECOMMENDATION:

THAT THE BOARD APPROVE THE GENERAL TERMS THAT DEFINE THE ROLES OF IRWD AND MWDOC IN IMPLEMENTING THE PROGRAM, AND CONTINGENT ON THE BOARD'S APPROVAL OF THE PRICING AND PROGRAM DURATION TERMS, AUTHORIZE STAFF AND LEGAL COUNSEL TO WORK WITH MWDOC AND ITS LEGAL COUNSEL TO PREPARE A DRAFT AGREEMENT FOR THE BOARD'S CONSIDERATION.

LIST OF EXHIBITS:

Exhibit "A" – Draft Proposed General Terms and Agency Roles for the Shared Reliability Pilot Program with MWDOC.

**Exhibit "A"**

**DRAFT**

**Proposed General Terms and Agency Roles for  
Shared Reliability Pilot Program Between IRWD and MWDOC**

(June 20, 2018)

<b>General Terms:</b>	
Parties	Irvine Ranch Water District (IRWD) and Municipal Water District of Orange County (MWDOC).
Purpose	IRWD and MWDOC seek to implement a Shared Reliability Pilot Program (Pilot Program) for the benefit of participating MWDOC member agencies utilizing IRWD's Strand and Stockdale Water Banking Projects (Water Bank). The Pilot Program will provide the participants with extraordinary water supply during periods when Metropolitan Water District of Southern California (Metropolitan) declares a Water Supply Allocation or during system emergency conditions.
Program Overview	Over the duration of the Pilot Program, MWDOC will pay, on behalf of its participating agencies, an annual option payment for the right to call on Pilot Program, water during the same year, consistent with defined price and payment terms.
Pilot Program Water	IRWD would make up to 5,000 acre-feet (AF) of water (net of Kern County losses) from its Water Bank for delivery to MWDOC over the Term of the Pilot Program.
<b>Agency Roles:</b>	
IRWD's Role	IRWD would: <ul style="list-style-type: none"><li>• Make available Pilot Program Water from its Water Bank;</li><li>• Operate its Water Bank; and</li><li>• Coordinate the recovery and delivery of water consistent with the Coordinated Operating Water Storage, Exchange and Delivery Agreement among IRWD, MWDOC and Metropolitan (Coordinated Agreement).</li></ul>
MWDOC's Roles	MWDOC would: <ul style="list-style-type: none"><li>• Implement the Pilot Program as a member agency "Choice Program";</li><li>• Enter into agreements with its member agencies that desire to participate in the Pilot Program;</li><li>• Coordinate with Pilot Program participants on exercising annual options;</li><li>• Communicate requests to IRWD for the recovery and delivery of Pilot Program Water;</li><li>• Coordinate deliveries into MWDOC service area;</li><li>• Invoice the Pilot Program participants; and</li><li>• Pay all Metropolitan Full Service Rates pursuant to the Coordinated Agreement.</li></ul>