

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

Tuesday, May 27, 2014

PLEDGE OF ALLEGIANCE

CALL TO ORDER

5:00 P.M., Board Room, District Office
15600 Sand Canyon Avenue, Irvine, California

ROLL CALL

Directors Matheis, Reinhart, Swan, Withers and President LaMar

NOTICE

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

COMMUNICATIONS TO THE BOARD

1. A. Written:

B. Oral:

2. ITEMS RECEIVED TOO LATE TO BE AGENDIZED

Recommendation: Determine that the need to discuss and/or take immediate action on item(s) introduced come to the attention of the District subsequent to the agenda being posted.

PRESENTATION

3. SCIENCE FAIR WINNERS

Each year, IRWD presents awards to local students for their water-related projects entered in the Irvine Unified School District Science Fair.

CONSENT CALENDAR

Next Resolution No. 2014-25

Items 4-20

4. MINUTES OF REGULAR BOARD MEETING

Recommendation: That the minutes of the April 28, 2014 Regular Board Meeting be approved as presented.

CONSENT CALENDAR – Continued Next Resolution No. 2014-25 Items 4-20

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

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

6. APRIL 2014 TREASURY REPORTS

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report, the Monthly Interest Rate Swap Summary for April 2014, and Disclosure Report of Reimbursements to board members and staff; approve the April 2014 Summary of payroll ach payments in the total amount of \$1,429,785 and approve the April 2014 accounts payable disbursement summary of warrants 347428 through 348231, workers' compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$26,322,911.

7. 2014 STATE LEGISLATIVE UPDATE

Recommendation: Receive and file.

8. UPCOMING PROJECTS STATUS REPORT

Recommendation: Receive and file.

9. PROPOSED SALARY GRADE CHANGES FOR FISCAL YEAR 2014-15

Recommendation: That the Board approve the proposed changes in the District's budgeted positions as outlined in the adopted FY 2014-15 Operating Budget; and approve the Salary Grade Schedule changes effective July 1, 2014; and adopt a resolution rescinding Resolution No. 2014-22 and establishing revised Schedule of Positions and Salary Rate Changes.

Reso No. 2014-

10. QUITCLAIM OF REAL PROPERTY TO BROOKFIELD LF 147 LLC (PROPOSED TRACT NO. 17446)

Recommendation: That the Board adopt a resolution approving execution of the Quitclaim Deed to Brookfield LF 147 LLC.

Reso No. 2014-

CONSENT CALENDAR – Continued	Next Resolution No. 2014-25	Items 4-20
<p>11. <u>QUITCLAIM OF REAL PROPERTY TO THE IRVINE LAND COMPANY LLC</u></p> <p>Recommendation: That the Board adopt resolution approving execution of the Quitclaim Deed to The Irvine Land Company LLC.</p>		Reso No. 2014-
<p>12. <u>QUITCLAIM DEED OF REAL PROPERTY TO EL TORO WATER DISTRICT</u></p> <p>Recommendation: That the Board adopt resolution approving execution of the Quitclaim Deed to El Toro Water District.</p>		Reso No. 2014-
<p>13. <u>INITIAL DISINFECTION FACILITY CHLORINE INJECTION LINE REPLACEMENT FINAL ACCEPTANCE</u></p> <p>Recommendation: That the Board accept construction of the Initial Disinfection Facility chlorine line replacement, project 11669 (4285); authorize the General Manager to file a Notice of Completion; and authorize the payment of the retention 35 days after the date of recording the Notice of Completion.</p>		
<p>14. <u>VALVE VAULT AND VAULT LID REPLACEMENT FINAL ACCEPTANCE</u></p> <p>Recommendation: That the Board accept construction of the Valve Vault and Vault Lid Replacement, project 11358 (1800); authorize the General Manager to file a Notice of Completion; and authorize the payment of the retention 35 days after the date of recording the Notice of Completion.</p>		
<p>15. <u>PLANNING AREA 51 HERITAGE FIELDS DISTRICT 1 CAPITAL FACILITIES</u></p> <p>Recommendation: That the Board authorize the addition of projects 11719 (4620), 31719 (4621), 21156 (4648), 31156 (4649), 21158 (4653), 11721 (4645), 31721 (4646), 21159 (4824), 31159 (4825), and 21165 (5016) to the FY 2013-14 Capital Budget in the amounts of \$172,700, \$105,600, \$255,200, \$78,100, \$403,700, \$161,700, \$266,200, \$310,200, \$321,200, and \$370,700, respectively; the Board authorize a budget increase in the amount of \$902,000 from \$162,800 to \$1,064,800 for project 21141 (4267); and the Board approve Expenditure Authorizations for projects 21141 (4267), 11719 (4620), 31719 (4621), 21156 (4648), 31156 (4649), 21158 (4653), 11721 (4645), 31721 (4646), 21159 (4824), 31159 (4825), and 21165 (5016) in the amounts of \$1,064,800, \$172,700, \$105,600, \$255,200, \$78,100, \$403,700, \$161,700, \$266,200, \$310,200, \$321,200, and \$370,700, respectively, for the Planning Area 51 Capital Facilities.</p>		

CONSENT CALENDAR – Continued

Next Resolution No. 2014-25

Items 4-20

16. TUSTIN LEGACY ARMSTRONG AVENUE AND WARNER AVENUE
CAPITAL IMPROVEMENTS

Recommendation: That the Board authorize the addition of projects 11746 (4988), 31746 (4989), and 30447 (4984) in the amount of \$60,500, \$282,700, and \$773,300, respectively, to the FY 2013-14 Capital Budget; and approve Expenditure Authorizations for projects 11746 (4988), 31746 (4989), and 30447 (4984) in the amount of \$60,500, \$282,700, and \$773,300, respectively, for the Tustin Legacy Armstrong Avenue and Warner Avenue Improvements, projects 11746 (4988), 31746 (4989), and 30447 (4984).

17. CALSCAPE WATER USE EFFICIENCY OUTREACH PROGRAM
CONSULTANT SELECTION

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with Crocker & Crocker in the amount of \$150,000 for the CALscape Outreach Program.

18. SOUTHERN CALIFORNIA GAS COMPANY PROGRAM PARTNERSHIP

Recommendation: That the Board authorize the General Manager to execute the Inter-Utility Service and Non-disclosure Agreement with Southern California Gas Company for participation and co-funding of up to \$100,000 in the Energy Savings Assistance Program that will result in cost-effective water savings.

19. SECOND AMENDMENT TO AGREEMENT FOR PARTICIPATION AND
FUNDING IN SPECIFIED MWDOC REBATE PROGRAMS

Recommendation: That the Board authorize the General Manager to execute the Second Amendment to the Agreement for Participation and Funding by IRWD in specified Municipal Water District of Orange County Rebate Programs, subject to non-substantive changes, for specified rebate programs with \$500,000 in funding for Fiscal Year 2014-15.

20. MICHELSON WATER RECYCLING PLANT BIOSOLIDS AND ENERGY
RECOVERY FACILITIES VARIANCE

Recommendation: That the Board authorize the General Manager to execute Variance No. 2 in the amount of \$112,665 with Black and Veatch to prepare the Odor Control Maintenance and Monitoring Plan for the Michelson Water Recycling Plant Biosolids and Energy Recovery Facilities, Project 21146 (4286).

ACTION CALENDAR

21. **BAKER WATER TREATMENT PLANT CONSTRUCTION HEARING ON R.B. SHEET METAL SUBCONTRACTOR SUBSTITUTION)**

1. Recommendation: Open the hearing.
2. Inquire of the Secretary how the hearing was noticed.
3. Receive and file the certified letter dated May 19, 2014 to RB Sheet Metal (five working days' statutory notice).
4. Request legal counsel to describe the nature of the proceeding.
5. Inquire of the Secretary if there have been any written comments.
6. Staff report.
7. Hear any representatives of PCL and RB Sheet Metal who wish to address the Board.
8. Board discussion/questions.
9. Close the hearing.
10. Recommendation: That the Board approve PCL Construction, Inc.'s request to substitute their named sheet metal subcontractor, R.B. Sheet Metal, Inc., on the grounds that (1) R.B. Sheet Metal's promise to sign its subcontract is contingent upon a favorable determination of a product substitution request, inconsistent with the applicable contract requirements and (2) the proposed substitute product is not deemed equivalent to the specified product

22. **MICHELSON WATER RECYCLING PLANT PHASE II EXPANSION LANDSCAPE CONSTRUCTION AWARD**

Recommendation: That the Board authorize the General Manager to execute a construction contract with Valley Crest Landscape Development, Inc. in the amount of \$940,400 for the Michelson Water Recycling Plant Phase II Expansion Landscape, projects 20214 (1599) and 30214 (1706).

23. **STOCKDALE WEST WELLHEAD EQUIPPING AND CONVEYANCE FACILITIES CONSULTANT SELECTION**

Recommendation: That the Board approve an Expenditure Authorization in the amount of \$272,600, and authorize the General Manager to execute a Professional Services Agreement with URS Corporation in the amount of \$225,785 for engineering services for the Stockdale West Wellhead Equipping and Conveyance Facilities, project 11645 (3766).

24. **EXCHANGE AGREEMENT WITH METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA**

Recommendation: That the Board authorize the General Manager to execute the Agreement for Exchange of Water between the Metropolitan Water District of Southern California and Irvine Ranch Water District for up to 4,000 acre-feet of banked water subject to non-substantive changes.

ACTION CALENDAR - Continued

25. ORACLE SOFTWARE LICENSES - ADDITIONAL ORACLE CUSTOMER CARE AND BILLING SOFTWARE LICENSES AND UNLIMITED LICENSE AGREEMENT FOR TECHNOLOGY LICENSES

Recommendation: That the Board authorize the General Manager to execute agreements with Oracle for the purchase of additional customer care and billing application licenses and the unlimited license agreement for technology licenses not to exceed \$2,401,500.

26. PROPOSED IRWD STORMWATER AND DRY WEATHER RUNOFF MANAGEMENT AND CAPTURE POLICY PRINCIPLES

Recommendation: That the Board approve the Stormwater and Dry Weather Runoff Management and Capture Policy Principles.

27. IRWD GROUNDWATER MANAGEMENT POLICY PRINCIPLES

Recommendation: That the Board approve the Groundwater Management Policy Principles.

28. LETTER OF SUPPORT AND COMMENTS ON THE BAY DELTA CONSERVATION PLAN AND ASSOCIATED DRAFT EIR/EIS

Recommendation: That the Board authorize staff to send the proposed letter of support and comment letter on the Bay Delta Conservation Plan and the associated Draft Environmental Impact Report / Environmental Impact Statement to the appropriate state and federal agencies before the June 13, 2014 deadline.

OTHER BUSINESS

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

29. A. General Manager's Report

OTHER BUSINESS - Continued

29. B. Directors' Comments

C. Adjourn

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Availability of agenda materials: Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the 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.

May 27, 2014
Prepared and
Submitted by: L. Bonkowski JB
Approved by: P. Cook P. Cook

CONSENT CALENDAR

MINUTES OF BOARD MEETING

SUMMARY:

Provided are the minutes of the April 28, 2014 Regular Board Meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE APRIL 28, 2014 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – Minutes of April 28, 2014 Regular Board Meeting

EXHIBIT "A"

MINUTES OF REGULAR MEETING – APRIL 28, 2014

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 LaMar on April 28, 2014 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

Directors Present: LaMar, Withers, Matheis and Reinhart

Directors Absent: Swan

Also Present: General Manager Cook, Executive Director of Finance Clary, Executive Director of Engineering and Planning Burton, Executive Director of Operations Sheilds, Executive Director of Water Resources Weghorst, Director of Water Resources Sanchez, Director of Human Resources Roney, Director of Public Affairs Beeman, Director of Administrative Services Mossbarger, Assistant Director of Maintenance Drake, Assistant Director of Recycling Operations Lee, Legal Counsel Arneson (via conference call), Secretary Bonkowski, Ms. Lyndy Lewis, Mr. Barkev Mererlian, Ms. Jesse Perez, Mr. Christian Kessler, Ms. Gina Jackson, Mr. Lars Oldewage, Mr. Christopher Smithson, Ms. Tina Bertsch, Mr. Jim Reed, Mr. Bruce Newell, and other members of the public and staff.

WRITTEN COMMUNICATION: None.

ORAL COMMUNICATION

Mrs. Joan Irvine Smith's assistant addressed the Board of Directors with respect to the Dyer Road Wellfield. She said it was her understanding that currently wells 2, C-8, C-9, 10, 12, 15 16, 17 and 18 will operate in accordance with the District's annual pumping plan. Wells 1, 3, 4, 5, 6, 7, 11, 13, and 14 will be off. This was confirmed by Mr. Cook, General Manager of the District.

On October 31, 2013, the District received its fully executed copy of the Annexation Agreement with the Orange County Water District. This was confirmed by Mr. Cook.

With respect to the Groundwater Emergency Service Plan, IRWD has an agreement in place with various south Orange County water agencies, MWDOC and OCWD, to produce additional groundwater for use within IRWD and transfer imported water from IRWD to south Orange County in case of emergencies. On November 10 2008, the IRWD Board approved the operating agreement with certain south Orange County water agencies to fund the interconnection facilities needed to affect the emergency transfer of water. MWDOC and OCWD have also approved the operating agreement. This was confirmed by Mr. Cook.

ITEMS TOO LATE TO BE AGENDIZED: None.

CSUF LEADERSHIP DEVELOPMENT FOR PUBLIC AGENCIES PRESENTATION AND RECOGNITION OF DISTRICT GRADUATES

Using a PowerPoint presentation, Ms. Kim Tang, Program Developer, and Shelly Wang, Manager of Program Development with the University Extended Education, California State University, Fullerton provided an overview of their series entitled "Leadership Development for Public Agencies" and congratulated the District's most recent graduates of the program including Mr. Christian Kessler, Assistant Engineer; Ms. Lindy Lewis, Regulatory, Compliance Manager; Mr. Barkev Meserlian, Engineer; and Mr. Jesse Perez, Operator III.

WORKSHOP

FISCAL YEAR 2014-15 OPERATING BUDGET AND PROPOSED RATES AND CHARGES

Using a PowerPoint presentation, Executive Director of Finance Clary provided an overview of the schedule for budget and rate adoption. She reviewed the key drivers of the budget and provided a comparison of the current Fiscal Year (FY) 2013-14 with the proposed FY 2014-15 budget. She said that the proposed FY 2014-15 Operating Budget is \$130.6 million, representing an increase of \$13.6 million, or 11.6%, over FY 2013-14. She said that one substantive change since the April 14, 2014 Board presentation is that the Orange County Water District (OCWD) Board approved a Replenishment Assessment (RA) of \$294 per acre-feet, down from staff's earlier assumption of \$304 per acre foot included in the April 14, 2014 Board package. The change has been updated under the "Summaries" tab and in Department 410 under the "Water Operations" tab. The effect of the change decreases the cost of water and total operating expenses by \$0.5 million. She further said that the primary drivers for increases in the FY 2014-15 Operating Budget include increased purchases of imported water due to higher water sales associated with District growth and the drought, along with substantial increases in the rates charged by the District's electric power provider. The FY 2014-15 Operating Budget also includes additional expenses associated with operating and maintaining substantial new capital facilities, some currently under construction and others recently completed.

Using a PowerPoint presentation, Mr. Christopher Smithson provided a review of the proposed rates for the District rate areas. He said that due to the proposed increases in the FY 2014-15 budget and the current drought, staff has incorporated several strategic changes in order to reduce overall water demands and control this year's rate increase. These include: 1) a change in the reasonable use allocation, reducing the water usage allocation per resident from 55 gallons per day to 50 gallons per day; 2) a change in the rate structure tiers, reducing the amount allowed in the inefficient, excessive, and wasteful tiers by 20%. Staff also recommends decreasing the commodity rate charged in the low volume tier from \$0.91 per hundred cubic feet (ccf) to \$0.88/ccf. The changes in the reasonable use allocations and tiered rate structure could initially increase some customers' water bills, but the cumulative effect of changes in the tiered rate structure and conservation messaging by the District and others is intended to change water use behaviors such that the amount of water purchased for IRWD customers will be reduced by 3,500 acre feet over the FY 2013-14 forecast in a drought year; 3) utilization of the over-allocation revenues to help fund the imported water costs purchased by the customers in the over-allocation tiers; and 4) utilization of the IRWD Replacement Fund to stabilize rate increases in a drought year.

Mr. Smithson said that based on the recommended increases and assuming an average customer's allocation is 18 ccf per month, the average customer in the Irvine Ranch rate area will experience an expected rate increase of \$3.41 or 7.1%, from \$48.23 per month to \$ 51.64 per month. An average residential customer in the Los Alisos Rate Area will experience a rate increase of \$3.65 or 5.8% from \$62.73 to \$66.38 per month. An average customer in the Orange Park Acres Rate Area will see a rate increase of \$2.01 or 3.8% from \$53.29 to \$55.30 per month.

Mr. Smithson reported on the Proposition 218 notices for the Irvine Ranch, Los Alisos and Orange Park Acres Rate Areas. The Proposition 218 notices include a schedule for a possible increase during the year of up to \$0.02/ccf in the commodity rate in addition to the recommended increase of \$0.07/ccf for the Irvine Ranch and Orange Park Acres rate areas if water purchases exceed target. The rate impacts to the Irvine Ranch and Orange Park Acres rate areas is an increase of 0.4% and 0.6%. The Los Alisos Rate Area would not include a step up provision because the melded cost of water does not increase with additional purchases. He said that staff is recommending that the Board approve the proposed Proposition 218 notices subject to non-substantive changes, whereupon staff will proceed with the mailing of these notices to the District's customer and landowners.

Following discussion, Director Reinhart asked that staff create a water shortage contingency plan this fall. Discussion was held on relative to the utilizing money from the Replacement Fund (Rate Stabilization Fund) to minimize the increase in rates. It was the consensus of the Board that the approval of the budget incorporate adjustments to the proposed rates to reflect a \$3 million rate stabilization contribution. On MOTION by Withers, seconded and unanimously carried, THE BOARD ADOPTED THE FOLLOWING RESOLUTION BY TITLE APPROVING THE OPERATING BUDGET FOR FISCAL YEAR 2014-15; AND APPROVED THE PROPOSITION 218 NOTICES SUBJECT TO NON-SUBSTANTIVE MODIFICATIONS.

RESOLUTION NO. 2014 -24

RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT,
ORANGE COUNTY, CALIFORNIA
APPROVING DISTRICT'S OPERATING BUDGET FOR
FISCAL YEAR 2014-15 AND DETERMINING COMPLIANCE WITH
ARTICLE XIII B OF THE CALIFORNIA CONSTITUTION

CONSENT CALENDAR

Director Reinhart noted a change in Item No. 6 relative to his attendance at conference. There being no further comments, on MOTION by Reinhart, seconded and unanimously carried, CONSENT CALENDAR ITEMS 5 THROUGH 9 WERE APPROVED.

5. MINUTES OF REGULAR AND ADJOURNED REGULAR BOARD MEETING

Recommendation: That the minutes of the April 4, 2014 Adjourned Regular Board Meeting and the April 14, 2014 Regular Board Meeting be approved.

CONSENT CALENDAR (continued)

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

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

7. MARCH 2014 TREASURY REPORTS

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report, the Monthly Interest Rate Swap Summary for March 2014, and Disclosure Report of Reimbursements to board members and staff; approve the March 2014 Summary of Payroll Ach payments in the total amount of \$1,457,937 and approve the March 2014 Accounts Payable Disbursement Summary of Warrants 346630 through 347427, workers' compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$18,428,899.

8. CATHODIC PROTECTION FOR GREEN ACRES PROJECT PIPELINE SEGMENT CONSULTANT SELECTION

Recommendation: That the Board approve an Expenditure Authorization in the amount of \$121,000, and authorize the General Manager to execute a Professional Services Agreement with RBF Consulting in the amount of \$106,565 for the Cathodic Protection for Green Acres Project Pipeline Segment, project 30415 (4396).

9. PLANNING AREA 40 CYPRESS VILLAGE CAPITAL SEWER IMPROVEMENTS

Recommendation: That the Board authorize the addition of project 21204 (5337) in the amount of \$227,000 to the FY 2013-14 Capital Budget, and approve an Expenditure Authorization in the amount of \$227,000 for the Planning Area 40 Capital Sewer Improvements, project 21204 (5337).

ACTION CALENDAR

IMPROVEMENT DISTRICT CONSOLIDATIONS LEGAL DESCRIPTION PREPARATION VARIANCE

General Manager Cook reported that RBF Consulting prepared approximately 40 legal descriptions required for the formation of the consolidated Improvement Districts (IDs) as part of the recently completed Long Term Finance Plan (LTFP). The legal descriptions had to be completed and filed with the County of Orange by December 1, 2013 in order to be effective on the County's 2014-15 tax roll. During preparation of the legal descriptions staff requested RBF to perform additional out of scope work to meet this aggressive schedule.

On MOTION by Reinhart, seconded and unanimously carried, THE BOARD AUTHORIZED BUDGET INCREASES FOR THE LONG TERM FINANCE PLAN IMPROVEMENT DISTRICT CONSOLIDATION, PROJECTS 11742 (4710) AND 21742 (4711), EACH IN THE AMOUNT OF \$34,100, FROM \$77,000 TO \$111,100, FOR A TOTAL BUDGET OF \$222,200; AND APPROVED EXPENDITURE AUTHORIZATIONS IN THE AMOUNT OF \$34,100, FOR A TOTAL OF \$68,200, FOR THE LONG TERM FINANCE PLAN IMPROVEMENT DISTRICT CONSOLIDATION, PROJECTS 11742 (4710) AND 21742 (4711).

MITIGATION CREDIT INVENTORY DEVELOPMENT

This project will identify and quantify potential mitigation areas in support of obtaining future regulatory permits for near-term and future Irvine Ranch Water District (IRWD) projects pursuant to State and Federal regulatory requirements. On MOTION by Withers, seconded and unanimously carried, THE BOARD AUTHORIZED THE ADDITION OF PROJECT 11797 (5338) TO THE FY 2013-14 CAPITAL BUDGET IN THE AMOUNT OF \$36,300 AND APPROVED THE EXPENDITURE AUTHORIZATION IN THE AMOUNT OF \$36,300 FOR THE MITIGATION CREDIT INVENTORY, PROJECT 11797 (5338).

EMBEDDED ENERGY PLAN CONSULTANT SELECTION

General Manager Cook reported that the development of an Embedded Energy Plan will position IRWD for obtaining energy utility grant funding for water conservation programs. Mr. Cook said that the plan will quantify energy use associated with each District facility involved in the production, treatment, distribution, collection, reuse and disposal of water and biosolids. It will also include the development of a tool that can be used to identify portions of the District where future water conservation and energy reduction measures should be focused. The plan will assist in developing a methodology for calculating pumping surcharges and will provide estimates of the District's embedded energy use for 20 years into the future.

Executive Director of Water Policy Weghorst reported that staff issued a Request for Proposals in February to seven firms to develop an Embedded Energy Plan. Proposals were received from Navigant Consulting, Inc. (Navigant), CLEAResult, and Kennedy Jenks Consultants. Staff completed a thorough evaluation of the written proposals and recommends the selection of Navigant to complete the work. Navigant's proposal includes the use of HDR Engineering (HDR) as a sub-consultant. Key strengths of the Navigant/HDR team proposal are: 1) significant experience in embedded energy models, including similar work for the California Public Utilities Commission on embedded energy in water and demand-side management studies; 2) HDR's in-depth knowledge of the District's water and sewage collection and treatment systems as HDR is currently developing the District's Recycled Water Salt Management Plan; 3) the Navigant/HDR team's proposal offers the strongest project understanding and a detailed project approach that includes a schedule that meet's staff expectations; and 4) costs were competitive when compared to the other proposals and are in line with staff estimates.

Director Reinhart said that this item was reviewed and approved by the Engineering and Operations Committee on April 15, 2014. On MOTION by Reinhart, seconded and unanimously carried, THE BOARD AUTHORIZED THE ADDITION OF PROJECTS 11792 (5343) AND PROJECTS 33499 (5344) TO THE FY 2013-14 CAPITAL BUDGET IN THE AMOUNT OF

\$180,000 EACH, FOR A TOTAL OF \$360,000 WHICH INCLUDES \$40,000 FOR STAFF TIME AND \$5,000 FOR LEGAL ASSISTANCE; APPROVED EXPENDITURE AUTHORIZATIONS FOR PROJECTS 11792 (5343) AND 33499 (5344) IN THE AMOUNT OF \$180,000 EACH, FOR A TOTAL OF \$360,000; AND AUTHORIZED THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH NAVIGANT CONSULTING INC. IN THE AMOUNT OF \$282,140 TO DEVELOP THE EMBEDDED ENERGY PLAN.

ENTERPRISE ASSET MANAGEMENT SOFTWARE CONTRACT AWARD FOR PRE-IMPLEMENTATION ASSISTANCE AND EXPENDITURE AUTHORIZATION

General Manager Cook reported that the Enterprise Asset Management (EAM) Software Review, completed in February 2014, provided the District with a roadmap for implementing a program to better manage its operational assets. The roadmap outlines a systematic approach for implementing an Enterprise Asset Management System (EAMS) and addresses activities that need to occur in a logical, multi-phased approach.

Mr. Cook said that implementation of an EAMS will improve the District's ability to manage its operational assets from acquisition to retirement, providing tools for preventive and predictive maintenance, financial analysis, and reporting. Over the past 18 months, EMA, Inc. has assisted the District with developing an EAM strategy, software requirements, software review, and implementation roadmap.

Executive Director of Wastewater Operations Shields reported that staff has evaluated the work required for the pre-implementation activities identified in the implementation roadmap and the need for support from individuals who are familiar with the District's requirements for the EAMS implementation. Additionally, experience with asset management strategic planning, EAMS enterprise standards, assets data definition and collection, development of business processes, performance measures, and assistance with procurement of implementation services for the EAMS is necessary to ensure that the project continues on schedule. He said that staff recommends that a professional services agreement be executed with EMA, Inc. as its staff demonstrated their ability to lead the development of the EAM strategy and provide a structured software review process. Additionally, EAM's experience is reflected in the content and quality of the Asset Management Strategy Report and EAMS Implementation Roadmap deliverables. He said that based on EMA's qualifications and unique knowledge of the District's asset management needs, staff is recommending EMA, Inc. on a sole-source basis.

Director Reinhart reported that this item was reviewed and approved by the Engineering and Operations Committee on April 15, 2014. On MOTION by Reinhart, seconded and unanimously carried, THE BOARD APPROVED TWO EXPENDITURE AUTHORIZATIONS IN THE TOTAL AMOUNT OF \$957,800 FOR PROJECTS 11619 (3566) AND 21619 (3567), AND AUTHORIZED THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH EMA, INC. IN THE AMOUNT OF \$638,000 FOR THE ENTERPRISE ASSET MANAGEMENT PRE-IMPLEMENTATION ACTIVITIES PROJECT.

OTHER BUSINESS

GENERAL MANAGER'S REPORT

General Manager Cook reported on the compromise reached between OCWD and OCBC relative to pollution standards implemented by AB 2712. Mr. Cook said that at the last OCWD Board meeting, following a Closed Session, the Board President reported in Open Session that a settlement was reached with Textron, and that Textron would be responsible for cleanup efforts as well as a payment of \$700,000 for the investigation. He said that OCWD will be responsible for monitoring this cleanup effort with Textron along with other polluters. He further said that the cleanup by Textron is in close proximity to IRWD's Well No. 3.

Mr. Cook reported that most likely the Board meeting on May 12, 2014 will be cancelled due to a lack of items.

He said that at the May 20, 2014 Engineering and Operations Committee meeting, a presentation and walking tour of the Michelson Water Recycling Plant Biosolids and Energy Recovery Facility will be held.

Mr. Cook also reported on his attendance at Colonel Foley's Celebration of Life ceremony held on April 26, 2014.

DIRECTORS' COMMENTS

Director Matheis reported on her attendance at the Urban Land Institute's Best of the Best Awards where IRWD was a finalist. She said that one of the winners was a homeowners association in Northwood where as part of their entrepreneurial efforts they grow avocados for local sale which enables them to maintain reasonable monthly fees. She also said that it was mentioned that the avocado trees are irrigated with recycled water from IRWD.

Director Matheis reported on her attendance at Shadetree Partnership's quarterly Board meeting and thanked Tom and Leslie Bonkowski as well as Dave Asman for all of their continued efforts to make this an effective organization. She also complimented the two docents who work at the nursery on a regular basis. She said that the nursery looks very impressive and said if the Board has the opportunity, to visit the nursery.

Director Matheis further said she attended the MCAS RAB meeting last Wednesday night with the next meeting scheduled in August; an Orange County Forum event which she found interesting with Mr. Hugh Hewitt as moderator.

Director Withers reported on the upcoming LAFCO Commissioner elections and noted that he ran unopposed for the Special District Commissioner seat, and was appointed for a four-year term. He also said that he attended Jack Foley's memorial service and the WACO monthly meeting.

Director Reinhart reported that he attended a MWDOC Board meeting, a SOCWA meeting to interview General Manager candidates, a South Orange County Agencies meeting with General Manager Cook and Director LaMar.

Director LaMar said he attended a South Orange County agency meeting and an NROC Executive Committee meeting. He noted a conversation he had with Mr. Tim Quinn regarding the new bill, AB 839, relative to the sustainability of groundwater management which is sponsored by ACWA.

ADJOURNMENT

There being no further business, President LaMar adjourned the meeting at 7:05 p.m.

APPROVED and SIGNED this 27th day of May, 2014.

President, IRVINE RANCH WATER DISTRICT

Secretary IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

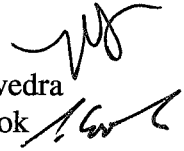
Legal Counsel - Bowie, Arneson, Wiles & Giannone

May 27, 2014

Prepared and

Submitted by: N. Savedra

Approved by: P. Cook



CONSENT CALENDAR

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

SUMMARY:

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

Events/Meetings

Steven LaMar

5/12/14 Meeting w/ Ted Martin, Scott Goldman & Bob Hill of El Toro Water District
5/14/14 Meeting w/SMWD Director Justin McCusker & SMWD GM Dan Ferons
5/15/14 Orange County Forum
5/17/14 Coyote Canyon Community Event & Expo
5/29/14 Association of California Cities-OC 2014 Infrastructure Summit
5/30/14 IRWD Resident Tour

Mary Aileen Matheis

5/31/14 IRWD Resident Tour
6/05/14 City of Tustin State of the City Address

Douglas Reinhart

5/12/14 Meeting w/ Ted Martin, Scott Goldman & Bob Hill of El Toro Water District
5/16/14 Annual Orange County Water Summit, Anaheim
5/28/14 Board member presentation at Orange County Rotary Club

Peer Swan

5/15/14 Orange County Forum
5/17/14 Coyote Canyon Community Event & Expo
5/29-30/14 ACWA Board of Directors Meeting, Sacramento, CA
6/07/14 IRWD Resident Tour

John Withers

5/15/14 Orange County Forum
5/17/14 Coyote Canyon Community Event & Expo
5/21/14 OCS&D State of the District Meeting
5/29/14 Association of California Cities-OC 2014 Infrastructure Summit

May 27, 2014

Page 4

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE AGREEMENTS WITH ORACLE FOR THE PURCHASE OF ADDITIONAL CUSTOMER CARE AND BILLING APPLICATION LICENSES AND THE UNLIMITED LICENSE AGREEMENT FOR TECHNOLOGY LICENSES NOT TO EXCEED \$2,401,500.

LIST OF EXHIBITS:

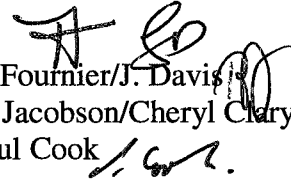
Exhibit “A” – License Agreement

May 27, 2014

Prepared by: T. Fournier/J. Davis

Submitted by: R. Jacobson/Cheryl Clary

Approved by: Paul Cook



CONSENT CALENDAR

APRIL 2014 TREASURY REPORTS

SUMMARY:

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

- A. The Investment Summary Report for April 2014. This Investment Summary Report is in conformity with the 2014 Investment Policy and provides sufficient liquidity to meet estimated expenditures during the next six months, as outlined in Exhibit "A".
- B. The Monthly Interest Rate Swap Summary as of April 30, 2014, as outlined in Exhibit "B".
- C. The Summary of Payroll ACH payments in the total amount of \$1,429,785, as outlined in Exhibit "C".
- D. The April 30, 2014 Disbursement Summary of warrants 347428 through 348231, wire transfers, Workers' Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$26,322,911, as outlined in Exhibit "D".
- E. The Disclosure Report of Reimbursements to Board Members and Staff for April 2014, detailing payments or reimbursements for individual charges of \$100.00 or more per transaction, as outlined in Exhibit "E".

FISCAL IMPACTS:

As of April 30, 2014, the book value of the investment portfolio was \$329,849,894, with a 0.44% rate of return and a market value of \$329,872,065. Based on the District's March 31, 2014 quarterly real estate investment rate of return of 12.21%, the District's weighted average return for the fixed income and real estate investments was 2.59%.

As of April 30, 2014, the total notional amount of the interest rate swap portfolio was \$130 million of fixed payer swaps. Cash accrual in April from all swaps was negative \$606,542.

Payroll ACH payments totaled \$1,429,785, and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, and water purchases for April totaled \$26,322,911.

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

This item was not submitted to a Committee; however, the investment and interest rate swap reports are submitted to the Finance and Personnel Committee on a monthly basis.

RECOMMENDATION:

THAT THE BOARD RECEIVE AND FILE THE TREASURER'S INVESTMENT SUMMARY REPORT, THE MONTHLY INTEREST RATE SWAP SUMMARY FOR APRIL 2014, AND DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF; APPROVE THE APRIL 2014 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$1,429,785 AND APPROVE THE APRIL 2014 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 347428 THROUGH 348231, WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$26,322,911.

LIST OF EXHIBITS:

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

IRVINE RANCH WATER DISTRICT
SUMMARY OF MATURITIES

04/30/14

DATE	TOTAL	%	LAIF	AGENCIES	COLLATERAL DEPOSIT	ETWD Installment Sale
4/14	\$127,646,500	38.69%	\$121,431,840		\$6,214,659	
5/14	\$25,000,000	7.58%		25,000,000		
6/14						
07/14						
08/14	\$5,000,000	1.52%		5,000,000		
09/14						
10/14						
11/14						
12/14						
1/15						
02/15						
03/15						
SUB-TOTAL	\$157,646,500	47.79%	\$121,431,840	\$30,000,000	\$6,214,659	
13 Months - 3 YEARS						
4/1/2015 - 6/30/2015	10,000,000	3.03%		\$10,000,000		
07/1/2015 - 9/30/2015	\$20,000,000	6.06%		20,000,000		
10/1/2015 - 12/30/15	20,000,000	6.06%		20,000,000		
01/01/16 - 03/31/2016	14,444,444	4.38%		14,444,444		
04/01/16 - 06/30/2016	30,000,000	9.09%		30,000,000		
07/01/16 - 9/30/2016	20,000,000	6.06%		20,000,000		
10/01/16 - 12/31/2016	27,500,000	8.34%		27,500,000		
1/1/2017 - 3/31/2017	15,000,000	4.55%		15,000,000		
04/01/17-06/30/17	15,000,000	4.55%		15,000,000		
07/01/17 - 9/30/2017						
04/30/2036	311,792	0.09%				311,792
TOTALS	\$329,902,736	100.00%	\$121,431,840	\$201,944,444	\$6,214,659	\$311,792

% OF PORTFOLIO

36.81%

61.22%

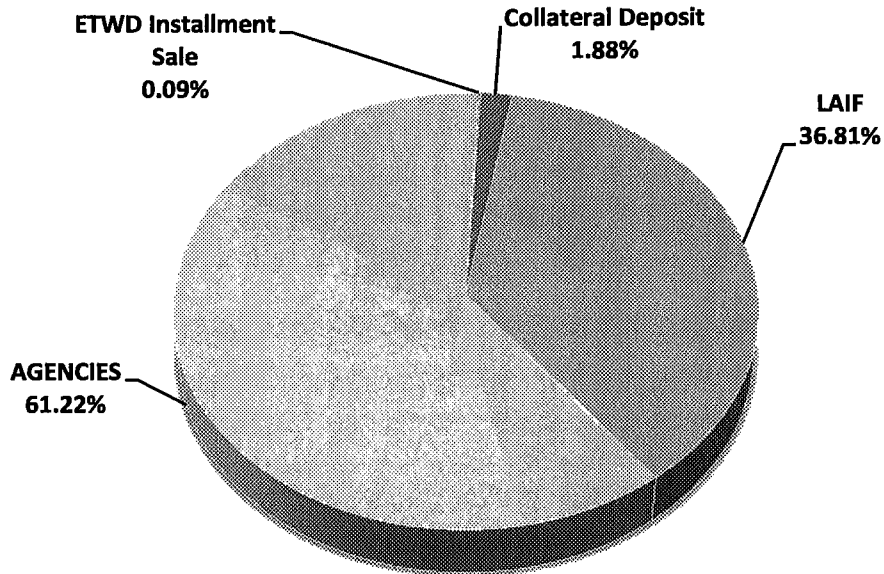
1.88%

0.09%

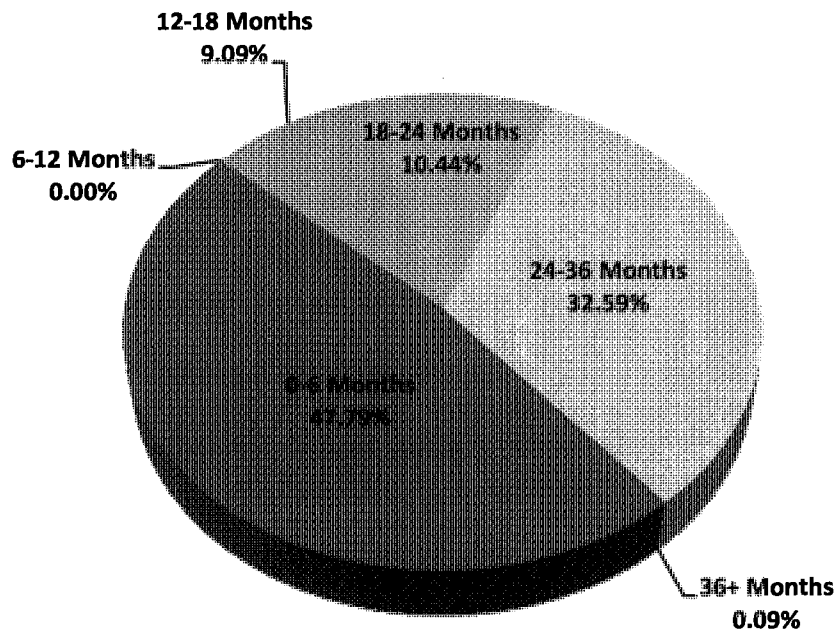
April 2014 INVESTMENT PORTFOLIO

April 30, 2014

Portfolio by Investment Type



Portfolio by Maturities



IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT
INVESTMENT ACTIVITY
April

MATURITIES/SALES/CALLS

PURCHASES

DATE	SECURITY TYPE	PAR	YIELD	Settlement Date	Maturity Date	SECURITY TYPE	PAR	YIELD TO MATURITY
4/15/2014	FNMA	\$5,000,000	0.50%	4/10/2014	4/30/2036	ETWD Installment Sale	\$311,792	4.57%
4/25/2014	FNMA	\$5,000,000	0.54%	4/15/2014	4/7/2016	FHLB	\$5,000,000	0.98%
4/25/2014	FNMA	\$4,975,000	0.57%	4/24/2014	8/26/2014	FNMA Discount Note	\$5,000,000	0.05%
4/29/2014	FHLB	\$5,000,000	0.51%	4/25/2014	4/24/2017	FFCB	\$5,000,000	0.98%
4/30/2014	FHLB	\$10,000,000	1.00%	4/29/2014	7/29/2016	FFCB	\$5,000,000	0.55%
				4/29/2014	4/25/2016	FFCB	\$5,000,000	0.48%
				4/30/2014	1/30/2017	FHLB	\$5,000,000	0.85%
				4/30/2014	4/28/2017	FHLMC	\$5,000,000	1.00%

Irvine Ranch Water District
 Summary of Real Estate
 3/31/2014

	<u>ACQUISITION DATE</u>	<u>PROPERTY TYPE</u>	<u>OWNERSHIP INTEREST</u>	<u>ORIGINAL COST</u>	<u>RATE OF RETURN QUARTER ENDED Mar-14</u>
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$ 43,550,810	15.81%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$ 6,000,000	8.25%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$ 5,739,845	6.74%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$ 8,630,577	4.82%
Sand Canyon Professional Center	Jul-12	Medical Office	Fee Simple	\$ 8,648,594	7.85%
				<u>\$ 72,569,826</u>	<u>12.21%</u>

**IRVINE RANCH WATER DISTRICT
INTEREST RATE SWAP MONTHLY SUMMARY REPORT - DETAIL
April 30, 2014**

Exhibit "B"

Current Fiscal Year Active Swaps								LIBOR Avg %			Prior Mo		Current Mo		12-Mo Avg	
Effective Date	Maturity Date	Years to Maturity	Counter Party	Notional Amt	Type	Base Index	Fixed Rate	0.15%	0.15%	0.17%	Prior Month	Current Month	Fiscal YTD	Cumulative Cash Flow	Current Mark to Market	Notional Difference
Fixed Payer Swaps - By Effective Date																
6/4/2006	6/4/2019	5.1	ML	\$ 20,000,000	FXP	LIBOR	6.200%	\$ (110,987)	\$ (97,350)	\$ (1,010,975)	\$ (110,987)	\$ (97,350)	\$ (1,010,975)	\$ (7,246,993)	\$ 15,543,145	\$ (4,456,855)
6/4/2006	6/4/2019	5.1	CG	20,000,000	FXP	LIBOR	6.200%	(110,987)	(97,350)	(1,010,975)	(110,987)	(97,350)	(1,010,975)	(7,246,993)	15,559,233	(4,440,767)
6/17/2006	6/17/2019	5.1	CG	30,000,000	FXP	LIBOR	6.140%	(164,853)	(144,550)	(1,501,682)	(164,853)	(144,550)	(1,501,682)	(10,740,890)	23,399,933	(6,600,067)
3/10/2007	3/10/2029	14.9	ML	30,000,000	FXP	LIBOR	5.687%	(152,388)	(133,646)	(1,387,590)	(152,388)	(133,646)	(1,387,590)	(9,577,293)	20,229,774	(9,770,226)
3/10/2007	3/10/2029	14.9	CG	30,000,000	FXP	LIBOR	5.687%	(152,388)	(133,646)	(1,387,590)	(152,388)	(133,646)	(1,387,590)	(9,577,293)	20,337,899	(9,662,101)
Totals/Weighted Avgs		9.6		\$ 130,000,000			5.949%	\$ (691,603)	\$ (606,542)	\$ (6,298,812)	\$ (691,603)	\$ (606,542)	\$ (6,298,812)	\$ (44,389,463)	\$ 95,069,984	\$ (34,930,016)
Total Current Year Active Swaps				\$ 130,000,000				\$ (691,603)	\$ (606,542)	\$ (6,298,812)	\$ (691,603)	\$ (606,542)	\$ (6,298,812)	\$ (44,389,463)	\$ 95,069,984	\$ (34,930,016)

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

Current Fiscal Year - Total Swaps								Cash Flow				Mark to Market	
								Prior Month	Current Month	Fiscal YTD	Cumulative Cash Flow	Current Mark to Market	Notional Difference
Total Current Year Active & Terminated Swaps				\$ 130,000,000				\$ (691,603)	\$ (606,542)	\$ (6,298,812)	\$ (44,389,463)	\$ 95,069,984	\$ (34,930,016)

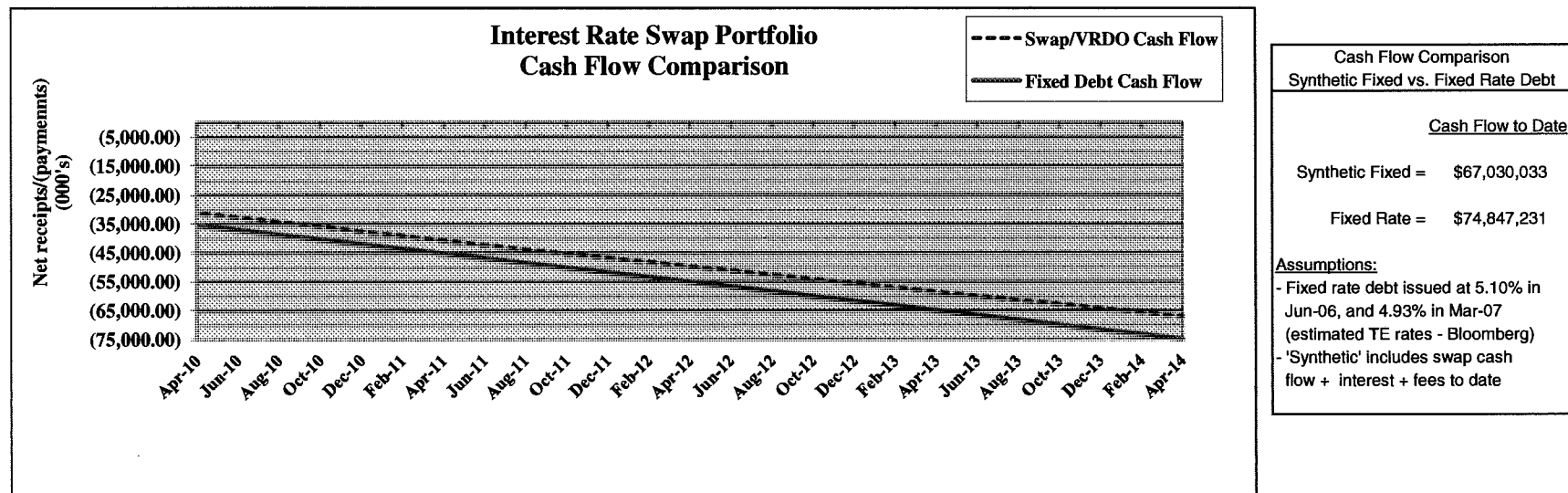


Exhibit "C"

MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS

April
2014

DATE	AMOUNT	VENDOR	PURPOSE
4/4/2014	711,743.28	BANK OF AMERICA	ACH Payments for Payroll
4/18/2014	718,041.52	BANK OF AMERICA	ACH Payments for Payroll
	<u>\$1,429,784.80</u>		

IRWD Ledger Payment Register For 01 APR 14 To 30 APR 14 Report Date: 02 MAY 2014 08:49
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 1
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
347428		02-APR-14	Spangenberg, Carl W (Carl)		33.09	17-APR-14	33.09	Reconciled
347429		02-APR-14	Batten, David Benjamin		148.00	11-APR-14	148.00	Reconciled
347430		02-APR-14	Jordan, Dawn M (Dawn)		24.98	07-APR-14	24.98	Reconciled
347431		02-APR-14	Tran, Jason M (Jason)		148.00	14-APR-14	148.00	Reconciled
347432		02-APR-14	Erwin, Kenneth D (Ken)		27.56	07-APR-14	27.56	Reconciled
347433		02-APR-14	Oldewage, Lars D (Lars)		445.00	04-APR-14	445.00	Reconciled
347434		02-APR-14	Cortez, Malcolm A (Malcolm)		73.92	18-APR-14	73.92	Reconciled
347435		02-APR-14	Drzymkowski, Michele A (Michele)		122.02	10-APR-14	122.02	Reconciled
347436		02-APR-14	Jones, Morgan		148.00			Negotiable
347437		02-APR-14	Sheilds, Patrick		18.00			Negotiable
347438		02-APR-14	Perez, Rodolfo (Rudy)		82.00	29-APR-14	82.00	Reconciled
347439		02-APR-14	ACHAY, LUKE		38.02	14-APR-14	38.02	Reconciled
347440		02-APR-14	AHMADI, MOSTAFA		36.37			Negotiable
347441		02-APR-14	AIRGAS-WEST, INC.		224.10	07-APR-14	224.10	Reconciled
347442		02-APR-14	AKM CONSULTING ENGINEERS, INC.		30,190.00	08-APR-14	30,190.00	Reconciled
347443		02-APR-14	ALCARAZ, DORINDA		76.17	17-APR-14	76.17	Reconciled
347444		02-APR-14	ALEXANDER CONTRACT SERVICES INC		104,598.98	09-APR-14	104,598.98	Reconciled
347445		02-APR-14	ALLIANT INSURANCE SERVICES, INC		8,010.55	08-APR-14	8,010.55	Reconciled
347446		02-APR-14	ALPHA TRAFFIC SERVICES, INC.		520.00	04-APR-14	520.00	Reconciled
347447		02-APR-14	AMERICAN MESSAGING SERVICES LLC		292.82	09-APR-14	292.82	Reconciled
347448		02-APR-14	ARCADIS U.S., INC.		10,279.00	10-APR-14	10,279.00	Reconciled
347449		02-APR-14	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA		33,491.80	10-APR-14	33,491.80	Reconciled
347450		02-APR-14	AT&T		168.90	07-APR-14	168.90	Reconciled
347451		02-APR-14	AT&T		85.16	09-APR-14	85.16	Reconciled
347452		02-APR-14	AUTOZONE PARTS, INC.		50.44	07-APR-14	50.44	Reconciled
347453		02-APR-14	BABAJANIAN, ARMINE		35.12	09-APR-14	35.12	Reconciled
347454		02-APR-14	BAILEY, OFELIA		1,200.00	07-APR-14	1,200.00	Reconciled
347455		02-APR-14	BALLARD, CARL		1,800.00	09-APR-14	1,800.00	Reconciled

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 2
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
347456		02-APR-14	BATTERY SPECIALTIES		3,792.68	08-APR-14	3,792.68	Reconciled
347457		02-APR-14	BECK, CINDY		1,800.00			Negotiable
347458		02-APR-14	BEHDADNIL GOHAR		15.00	08-APR-14	15.00	Reconciled
347459		02-APR-14	BILL'S SWEEPING SERVICE INC		1,265.00	08-APR-14	1,265.00	Reconciled
347460		02-APR-14	BISHAY, ASHRAF		35.29	09-APR-14	35.29	Reconciled
347461		02-APR-14	BLAKE, DARLA		17.45			Negotiable
347462		02-APR-14	BLASICK, DIANE		1,080.00	10-APR-14	1,080.00	Reconciled
347463		02-APR-14	BOONE, CHUCK		1,620.00			Negotiable
347464		02-APR-14	BORROTO, JORGE		1,740.00	10-APR-14	1,740.00	Reconciled
347465		02-APR-14	BRADLEY, CARRIE		1,800.00	14-APR-14	1,800.00	Reconciled
347466		02-APR-14	BRAITHWAITE, LISA		29.32	11-APR-14	29.32	Reconciled
347467		02-APR-14	BREITER, JOE		1,800.00	17-APR-14	1,800.00	Reconciled
347468		02-APR-14	BRIDGES, DAVID		109.26	07-APR-14	109.26	Reconciled
347469		02-APR-14	BRITHINEE ELECTRIC		16,043.63	09-APR-14	16,043.63	Reconciled
347470		02-APR-14	C WELLS PIPELINE MATERIALS INC		12,610.57	10-APR-14	12,610.57	Reconciled
347471		02-APR-14	CALIFORNIA BARRICADE INC		3,752.50	08-APR-14	3,752.50	Reconciled
347472		02-APR-14	CALIFORNIA CHASSIS INC		2,011.00	07-APR-14	2,011.00	Reconciled
347473		02-APR-14	CALIFORNIA DEPT OF PUBLIC HEALTH		7,577.60	11-APR-14	7,577.60	Reconciled
347474		02-APR-14	CANON SOLUTIONS AMERICA, INC.		407.01	07-APR-14	407.01	Reconciled
347475		02-APR-14	CARDIAC SCIENCE		2,792.00	07-APR-14	2,792.00	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
347476	02-APR-14		CORPORATION					
347477	02-APR-14		CELAYA, MARY		1,800.00	07-APR-14	1,800.00	Reconciled
347478	02-APR-14		CHUNG, IN		36.23			Negotiable
347479	02-APR-14		CLAPP, SUSAN		28.25	10-APR-14	28.25	Reconciled
347480	02-APR-14		CLAYTON, MARTY		1,620.00			Negotiable
	02-APR-14		COASTLINE		648.71	07-APR-14	648.71	Reconciled
			EQUIPMENT COMPANY					
347481	02-APR-14		CONNEXUS		5,030.00	16-APR-14	5,030.00	Reconciled
			INDUSTRIES INC.					
347482	02-APR-14		CRIM, RON		1,700.00	14-APR-14	1,700.00	Reconciled
347483	02-APR-14		CRUMP & CO, INC.		7,088.00	10-APR-14	7,088.00	Reconciled
347484	02-APR-14		CUMMINS CAL		269.50	07-APR-14	269.50	Reconciled
			PACIFIC LLC					
347485	02-APR-14		DEAKYNE, SCOTT		750.00	08-APR-14	750.00	Reconciled
347486	02-APR-14		DENGER, LOU		1,800.00	17-APR-14	1,800.00	Reconciled
347487	02-APR-14		EAGLE PRINT		5,882.99	08-APR-14	5,882.99	Reconciled
			DYNAMICS					
347488	02-APR-14		ENVIRONMENTAL		906.88	08-APR-14	906.88	Reconciled
			EXPRESS INC					

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 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								
347489	02-APR-14		ENVIRONMENTAL		15,461.54	10-APR-14	15,461.54	Reconciled
347490	02-APR-14		SCIENCE ASSOCIATES		600.00	07-APR-14	600.00	Reconciled
347491	02-APR-14		ERVIN, CRAIG J		803.79	04-APR-14	803.79	Reconciled
			EXECUTIVE LIGHTING & ELECTRIC					
347492	02-APR-14		FAJARDO, AURELIO		1,800.00	07-APR-14	1,800.00	Reconciled
347493	02-APR-14		FARRELL & ASSOCIATES		623.55	07-APR-14	623.55	Reconciled
347494	02-APR-14		FARZIN, ARMITA		191.10	11-APR-14	191.10	Reconciled
347495	02-APR-14		FIDELITY SECURITY		6,205.53	11-APR-14	6,205.53	Reconciled
			LIFE INSURANCE COMPANY					
347496	02-APR-14		FIRST CHOICE		369.45	08-APR-14	369.45	Reconciled
			SERVICES					
347497	02-APR-14		FISHER SCIENTIFIC		2,939.80	07-APR-14	2,939.80	Reconciled
			COMPANY LLC					
347498	02-APR-14		FRANK LA PLACA		175.00	11-APR-14	175.00	Reconciled
			EXTERMINATING INC					
347499	02-APR-14		FT ENG INC		1,881.80	08-APR-14	1,881.80	Reconciled
347500	02-APR-14		GALICIA, RHONEIL		23.23			Negotiable
347501	02-APR-14		GEISER, DON		1,800.00	07-APR-14	1,800.00	Reconciled
347502	02-APR-14		GEORGE, JAYNE		1,260.00	08-APR-14	1,260.00	Reconciled
347503	02-APR-14		GERMAN, CAROLYN		1,500.00	04-APR-14	1,500.00	Reconciled
347504	02-APR-14		GINGRAS, MARK		1,800.00	07-APR-14	1,800.00	Reconciled
347505	02-APR-14		GLOBALSTAR INC		211.97	07-APR-14	211.97	Reconciled
347506	02-APR-14		GONZALEZ, PETER		1,800.00	07-APR-14	1,800.00	Reconciled
347507	02-APR-14		GRAINGER		468.33	07-APR-14	468.33	Reconciled
347508	02-APR-14		H2O INNOVATION USA		6,598.80	11-APR-14	6,598.80	Reconciled
			INC					
347509	02-APR-14		HABIGER, STEVE		1,800.00	09-APR-14	1,800.00	Reconciled
347510	02-APR-14		HARRINGTON		639.21	04-APR-14	639.21	Reconciled
			INDUSTRIAL PLASTICS LLC					
347511	02-APR-14		HASSETT, MARY KAY		1,800.00	07-APR-14	1,800.00	Reconciled
347512	02-APR-14		HEANEY, DAVID		1,800.00	04-APR-14	1,800.00	Reconciled
347513	02-APR-14		HEIERTZ, GREG		1,800.00	18-APR-14	1,800.00	Reconciled
347514	02-APR-14		HERTZ EQUIPMENT		921.24	08-APR-14	921.24	Reconciled
			RENTAL					
347515	02-APR-14		HILL BROTHERS		6,358.17	08-APR-14	6,358.17	Reconciled
			CHEMICAL COMPANY					
347516	02-APR-14		HILLS, JOHN		900.00	08-APR-14	900.00	Reconciled
347517	02-APR-14		HOLLIDAY, MARY E		1,200.00	16-APR-14	1,200.00	Reconciled
347518	02-APR-14		HOME DEPOT USA INC		88.66	08-APR-14	88.66	Reconciled
347519	02-APR-14		HR/LABOR SOLUTIONS		17,336.11	11-APR-14	17,336.11	Reconciled
			INC					
347520	02-APR-14		HULLEN, PATRICIA		75.43	29-APR-14	75.43	Reconciled

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 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								
347521	02-APR-14		HUNG, MAO		38.53			Negotiable
347522	02-APR-14		HYDE, JIM		1,800.00	09-APR-14	1,800.00	Reconciled
347523	02-APR-14		IBM CORPORATION		17,127.47	10-APR-14	17,127.47	Reconciled
347524	02-APR-14		ICHIKAWA, HIROSHI		14.01	01-MAY-14	14.01	Reconciled
347525	02-APR-14		IRVINE PIPE & SUPPLY INC		3,954.98	04-APR-14	3,954.98	Reconciled
347526	02-APR-14		ISLAND RESTAURANTS		40.53			Negotiable
347527	02-APR-14		JIAO, TJ		25.41	29-APR-14	25.41	Reconciled

347528	02-APR-14	JOHANNESSEN, JOHNNIE	1,800.00	07-APR-14	1,800.00	Reconciled
347529	02-APR-14	JOHN CRANE, INC.	2,598.28	07-APR-14	2,598.28	Reconciled
347530	02-APR-14	JOHN MICHAEL COVAS	138.70	11-APR-14	138.70	Reconciled
347531	02-APR-14	JUNG, JAY	11.25	08-APR-14	11.25	Reconciled
347532	02-APR-14	KANNAN, SAINI	17.00	17-APR-14	17.00	Reconciled
347533	02-APR-14	KAO, LISA	21.59	10-APR-14	21.59	Reconciled
347534	02-APR-14	KELLY SERVICES INC	1,639.92	07-APR-14	1,639.92	Reconciled
347535	02-APR-14	KILANI, ABDEL	1,620.00	07-APR-14	1,620.00	Reconciled
347536	02-APR-14	KIM, WILLIAM W	23.51	08-APR-14	23.51	Reconciled
347537	02-APR-14	KIMBALL MIDWEST	964.24	09-APR-14	964.24	Reconciled
347538	02-APR-14	KNUTH, MICHAEL C	900.00	07-APR-14	900.00	Reconciled
347539	02-APR-14	KONECRANES INC	3,007.00	07-APR-14	3,007.00	Reconciled
347540	02-APR-14	KONVES, JIM	1,560.00	08-APR-14	1,560.00	Reconciled
347541	02-APR-14	KUO, YOCHUNG	121.82	07-APR-14	121.82	Reconciled
347542	02-APR-14	LANE, PATRICIA	41.69	09-APR-14	41.69	Reconciled
347543	02-APR-14	LATORRE, ROXANNE	40.49	07-APR-14	40.49	Reconciled
347544	02-APR-14	LIGHT COMMUNICATIONS INC	11,232.00	10-APR-14	11,232.00	Reconciled
347545	02-APR-14	LIN, CHING-HUI	36.20			Negotiable
347546	02-APR-14	LIQUID WASTE TECHNOLOGY, LLC	1,003.25	07-APR-14	1,003.25	Reconciled
347547	02-APR-14	LOCHRIDGE, DAVID	1,500.00	07-APR-14	1,500.00	Reconciled
347548	02-APR-14	LU, XIAOPING	23.54			Negotiable
347549	02-APR-14	LUBRICATION ENGINEERS, INC.	4,952.59	07-APR-14	4,952.59	Reconciled
347550	02-APR-14	LYNCH, JAN	1,000.00	07-APR-14	1,000.00	Reconciled
347551	02-APR-14	MACDONALD, BONNIE	1,400.00	11-APR-14	1,400.00	Reconciled
347552	02-APR-14	MAILFINANCE INC	973.99	07-APR-14	973.99	Reconciled
347553	02-APR-14	MANZAVIA, NIHAR	35.16	07-APR-14	35.16	Reconciled
347554	02-APR-14	MC MASTER CARR SUPPLY CO	127.01	07-APR-14	127.01	Reconciled
347555	02-APR-14	MCDONALD, VICKI	900.00	15-APR-14	900.00	Reconciled
347556	02-APR-14	MCNAIR, BRITTANY	39.31			Negotiable
347557	02-APR-14	MICHAELS, ROSS & COLE LTD	6,660.00	09-APR-14	6,660.00	Reconciled
347558	02-APR-14	MORALES, JACK	1,320.00	08-APR-14	1,320.00	Reconciled
347559	02-APR-14	MORENO, MARGARET	17.74			Negotiable

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 5
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
347560		02-APR-14	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY		33,581.10	08-APR-14	33,581.10	Reconciled
347561		02-APR-14	NATIONAL READY MIXED CONCRETE CO		1,581.40	07-APR-14	1,581.40	Reconciled
347562		02-APR-14	NEGREY, JOE		10.29	14-APR-14	10.29	Reconciled
347563		02-APR-14	NIGRO, JEANNE		47.32	22-APR-14	47.32	Reconciled
347564		02-APR-14	NMG GEOTECHNICAL INC		29,656.00	11-APR-14	29,656.00	Reconciled
347565		02-APR-14	OLIN CORPORATION		2,853.17	07-APR-14	2,853.17	Reconciled
347566		02-APR-14	ON ASSIGNMENT LAB SUPPORT		1,244.80	07-APR-14	1,244.80	Reconciled
347567		02-APR-14	ONESOURCE DISTRIBUTORS LLC		5,328.32	09-APR-14	5,328.32	Reconciled
347568		02-APR-14	ORANGE COUNTY AUTO PARTS CO		62.08	04-APR-14	62.08	Reconciled
347569		02-APR-14	OVALLE, GLORIA		102.56	04-APR-14	102.56	Reconciled
347570		02-APR-14	PACIFIC COAST BOLT CORP		623.13	07-APR-14	623.13	Reconciled
347571		02-APR-14	PACIFIC MECHANICAL SUPPLY		1,237.64	04-APR-14	1,237.64	Reconciled
347572		02-APR-14	PALOMARES, JOHN		1,800.00	04-APR-14	1,800.00	Reconciled
347573		02-APR-14	PARKHOUSE TIRE INC		13,073.81	09-APR-14	13,073.81	Reconciled
347574		02-APR-14	PAUL E BRADLEY INC		3,825.00	08-APR-14	3,825.00	Reconciled
347575		02-APR-14	PAYNE & FEARS LLP		11,689.16	08-APR-14	11,689.16	Reconciled
347576		02-APR-14	PEARPOINT		97.24	07-APR-14	97.24	Reconciled
347577		02-APR-14	PGI ORANGE COUNTY INVESTMENTS, LLC		35.64	22-APR-14	35.64	Reconciled
347578		02-APR-14	PHAM, BINH T		1,740.00	07-APR-14	1,740.00	Reconciled
347579		02-APR-14	POLLARDWATER.COM		219.40	08-APR-14	219.40	Reconciled
347580		02-APR-14	PONTON INDUSTRIES INC		6,906.95			Negotiable
347581		02-APR-14	POPESCU, LUMINITA		1,560.00	09-APR-14	1,560.00	Reconciled
347582		02-APR-14	POSEY, WAYNE		1,800.00	08-APR-14	1,800.00	Reconciled
347583		02-APR-14	PRAXAIR DISTRIBUTION INC		473.86	08-APR-14	473.86	Reconciled
347584		02-APR-14	PRUDENTIAL OVERALL SUPPLY		4,775.16	07-APR-14	4,775.16	Reconciled
347585		02-APR-14	PTI SAND & GRAVEL INC		351.53	09-APR-14	351.53	Reconciled
347586		02-APR-14	RESPONSE ENVELOPE, INC		1,764.18	08-APR-14	1,764.18	Reconciled
347587		02-APR-14	RICHARD C SLADE & ASSOCIATES LLC		3,492.00	17-APR-14	3,492.00	Reconciled
347588		02-APR-14	RINCON TRUCK CENTER INC.		480.70	04-APR-14	480.70	Reconciled

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 6
 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								
347589		02-APR-14	RITE AID PHARMACY		80.00	07-APR-14	80.00	Reconciled
347590		02-APR-14	RMC WATER AND ENVIRONMENT		3,689.01	07-APR-14	3,689.01	Reconciled
347591		02-APR-14	SANCHEZ, AL		1,400.00	07-APR-14	1,400.00	Reconciled
347592		02-APR-14	SANTA ANA BLUE PRINT		5.40	04-APR-14	5.40	Reconciled
347593		02-APR-14	SANTA MARGARITA FORD		1,858.90	07-APR-14	1,858.90	Reconciled
347594		02-APR-14	SANTIAGO AQUEDUCT COMMISSION		6,172.66	08-APR-14	6,172.66	Reconciled
347595		02-APR-14	SHAMROCK SUPPLY CO INC		209.30	04-APR-14	209.30	Reconciled
347596		02-APR-14	SHEWA, CHIRAG		100.00	04-APR-14	100.00	Reconciled
347597		02-APR-14	SHIH, PAO		26.77	01-MAY-14	26.77	Reconciled
347598		02-APR-14	SILLS, SUSANN		35.89	24-APR-14	35.89	Reconciled
347599		02-APR-14	SIRIUS COMPUTER SOLUTIONS INC		18,985.06	11-APR-14	18,985.06	Reconciled
347600		02-APR-14	SKIDMORE GLENN D		1,560.00	07-APR-14	1,560.00	Reconciled
347601		02-APR-14	SMITH, THERESA		16.88	16-APR-14	16.88	Reconciled
347602		02-APR-14	SOUTHERN CALIFORNIA EDISON COMPANY		220,051.31	04-APR-14	220,051.31	Reconciled
347603		02-APR-14	SPECTER INSTRUMENTS		1,185.00	11-APR-14	1,185.00	Reconciled
347604		02-APR-14	STANEART, JEFF		1,320.00			Negotiable
347605		02-APR-14	STANTEC CONSULTING SERVICES INC.		1,974.00	07-APR-14	1,974.00	Reconciled
347606		02-APR-14	STEEL UNLIMITED INC		2,710.80	09-APR-14	2,710.80	Reconciled
347607		02-APR-14	SULTAN, SAID		1,800.00	14-APR-14	1,800.00	Reconciled
347608		02-APR-14	SUNDBERG, RANDY		1,800.00	16-APR-14	1,800.00	Reconciled
347609		02-APR-14	T AND S LARSEN MAINTENANCE		600.00	08-APR-14	600.00	Reconciled
347610		02-APR-14	TABER, LEE		27.39			Negotiable
347611		02-APR-14	TAHERI, IRAJ		1,800.00	07-APR-14	1,800.00	Reconciled
347612		02-APR-14	TCLA, INC		13,312.50	09-APR-14	13,312.50	Reconciled
347613		02-APR-14	THOMSON, KRIS		1,440.00	15-APR-14	1,440.00	Reconciled
347614		02-APR-14	THYSSENKRUPP ELEVATOR		162.89	07-APR-14	162.89	Reconciled
347615		02-APR-14	TIFT, TERESA		1,440.00	08-APR-14	1,440.00	Reconciled
347616		02-APR-14	TROPICAL PLAZA NURSERY INC		762.00	04-APR-14	762.00	Reconciled
347617		02-APR-14	TRUCPARCO		1,835.99	08-APR-14	1,835.99	Reconciled
347618		02-APR-14	TRUGREEN LANDCARE LLC		18,800.00	09-APR-14	18,800.00	Reconciled
347619		02-APR-14	TUCKER, TOM		1,800.00	07-APR-14	1,800.00	Reconciled

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 7
 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								
347620		02-APR-14	TURNER, NOEL		77.72	30-APR-14	77.72	Reconciled
347621		02-APR-14	UEMATSU, PATRICIA		1,080.00	07-APR-14	1,080.00	Reconciled
347622		02-APR-14	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA		900.00	08-APR-14	900.00	Reconciled
347623		02-APR-14	UNITED PARCEL SERVICE INC		54.11	07-APR-14	54.11	Reconciled
347624		02-APR-14	UNITED SITE SERVICES OF CALIFORNIA INC		139.26	07-APR-14	139.26	Reconciled
347625		02-APR-14	UNIVAR USA INC		235.68	07-APR-14	235.68	Reconciled
347626		02-APR-14	URS CORPORATION		34,740.50	10-APR-14	34,740.50	Reconciled
347627		02-APR-14	VELAZQUEZ, LORETTA		1,800.00	10-APR-14	1,800.00	Reconciled
347628		02-APR-14	VERIZON CALIFORNIA INC		281.56	09-APR-14	281.56	Reconciled
347629		02-APR-14	VERIZON WIRELESS SERVICES LLC		9,885.69	11-APR-14	9,885.69	Reconciled
347630		02-APR-14	VORONEL, ARCADY		20.82	10-APR-14	20.82	Reconciled
347631		02-APR-14	VULCAN INDUSTRIES INC		3,594.90	07-APR-14	3,594.90	Reconciled
347632		02-APR-14	VULCAN MATERIALS COMPANY		1,412.17	07-APR-14	1,412.17	Reconciled
347633		02-APR-14	VWR INTERNATIONAL, LLC		4,305.42	07-APR-14	4,305.42	Reconciled
347634		02-APR-14	WALKER, JOHN		1,800.00	07-APR-14	1,800.00	Reconciled
347635		02-APR-14	WALSH, SANDY		1,140.00	07-APR-14	1,140.00	Reconciled

347636	02-APR-14	WALTERS WHOLESALE ELECTRIC		138.09	09-APR-14	138.09	Reconciled
347637	02-APR-14	WASTE MANAGEMENT OF ORANGE COUNTY		1,784.14	08-APR-14	1,784.14	Reconciled
347638	02-APR-14	WATERLINE TECHNOLOGIES INC		3,172.44	04-APR-14	3,172.44	Reconciled
347639	02-APR-14	WAXIE'S ENTERPRISES, INC		929.50	07-APR-14	929.50	Reconciled
347640	02-APR-14	WELLS, JANET		1,800.00	07-APR-14	1,800.00	Reconciled
347641	02-APR-14	WEST COAST SAFETY SUPPLY INC		638.99	16-APR-14	638.99	Reconciled
347642	02-APR-14	WILSON, DENNIS		39.24	08-APR-14	39.24	Reconciled
347643	02-APR-14	WIRELESS WATCHDOGS, LLC		932.00	11-APR-14	932.00	Reconciled
347644	02-APR-14	WOLVERTON, LISA		58.04	04-APR-14	58.04	Reconciled
347645	02-APR-14	YUAN, YANGDAR		15.27	21-APR-14	15.27	Reconciled
347646	02-APR-14	ZHANG, ZHUO LI		24.05	22-APR-14	24.05	Reconciled
347647	02-APR-14	ZHOU, QIAN		3.71			Negotiable
347648	02-APR-14	ZIHUA, QIN		14.88			Negotiable

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 BANK: Bank of America N.A. Branch: Los Angeles Account: Checking AP and PR Page: 8
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
347649	03-APR-14		Gallo, Dilcia E		41.84	04-APR-14	41.84	Reconciled
347650	03-APR-14		ADS LLC		1,991.00	07-APR-14	1,991.00	Reconciled
347651	03-APR-14		CHARLES Z FEDAK & COMPANY		2,320.00	04-APR-14	2,320.00	Reconciled
347652	03-APR-14		CLEARINGHOUSE		548.29	07-APR-14	548.29	Reconciled
347653	03-APR-14		CONEYBEARE INC		7,359.29	08-APR-14	7,359.29	Reconciled
347654	03-APR-14		CREATIVE ALLIANCE GROUP LLC		5,064.41	11-APR-14	5,064.41	Reconciled
347655	03-APR-14		EXECUTIVE LIGHTING & ELECTRIC		773.65	04-APR-14	773.65	Reconciled
347656	03-APR-14		FISHER SCIENTIFIC COMPANY LLC		573.83	07-APR-14	573.83	Reconciled
347657	03-APR-14		HDR ENGINEERING INC		48,967.50	10-APR-14	48,967.50	Reconciled
347658	03-APR-14		HELP/SYSTEMS, LLC		22,695.00	10-APR-14	22,695.00	Reconciled
347659	03-APR-14		INTERNAL REVENUE SERVICE		100.00	10-APR-14	100.00	Reconciled
347660	03-APR-14		IRWD EMPLOYEE ASSOCIATION		720.00	03-APR-14	720.00	Reconciled
347661	03-APR-14		IRWD-PETTY CASH CUSTODIAN		1,225.93	04-APR-14	1,225.93	Reconciled
347662	03-APR-14		NOVELL INC		250.00	07-APR-14	250.00	Reconciled
347663	03-APR-14		ORANGE COUNTY TREASURER		3,200.00	08-APR-14	3,200.00	Reconciled
347664	03-APR-14		PAULUS ENGINEERING INC		10,102.00	09-APR-14	10,102.00	Reconciled
347665	03-APR-14		PERS LONG TERM CARE		738.95	08-APR-14	738.95	Reconciled
347666	03-APR-14		PRUDENTIAL OVERALL SUPPLY		168.30	07-APR-14	168.30	Reconciled
347667	03-APR-14		RICHARD C SLADE & ASSOCIATES LLC		1,160.00	17-APR-14	1,160.00	Reconciled
347668	03-APR-14		SCHINDLER ELEVATOR CORPORATION		169.16	07-APR-14	169.16	Reconciled
347669	03-APR-14		SIRIUS COMPUTER SOLUTIONS INC		17,349.36	11-APR-14	17,349.36	Reconciled
347670	03-APR-14		SUPERMEDIA LLC		72.75	10-APR-14	72.75	Reconciled
347671	03-APR-14		TETRA TECH, INC		50,412.03	11-APR-14	50,412.03	Reconciled
347672	03-APR-14		V-KOOL INC.		2,080.56	08-APR-14	2,080.56	Reconciled
347673	03-APR-14		VWR INTERNATIONAL, LLC		320.88	07-APR-14	320.88	Reconciled
347674	03-APR-14		BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	960.00	08-APR-14	960.00	Reconciled
347675	04-APR-14		COUNTY OF ORANGE	SANTA ANA	378.00	08-APR-14	378.00	Reconciled

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 BANK: Bank of America N.A. Branch: Los Angeles Account: Checking AP and PR Page: 9
 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								
347676	04-APR-14		ACWA	SACRAMENTO 2	5,000.00	15-APR-14	5,000.00	Reconciled
347677	04-APR-14		SOUTH ORANGE COUNTY REGIONAL CHAMBER OF COMMERCE	MISSION VIEJO 1	2,500.00	21-APR-14	2,500.00	Reconciled
347678	04-APR-14		ORANGE COUNTY TREASURER	SANTA ANA 2	5,143.32	14-APR-14	5,143.32	Reconciled
347679	04-APR-14		ALSTON & BIRD LLP	ATLANTA	2,871.00	14-APR-14	2,871.00	Reconciled

347680	09-APR-14	ANTHEM BLUE CROSS LOS ANGELES	1,089.40	14-APR-14	1,089.40	Reconciled
347681	09-APR-14	ANTHEM BLUE CROSS LOS ANGELES	415.62	14-APR-14	415.62	Reconciled
347682	09-APR-14	ANTHEM BLUE CROSS LOS ANGELES	2,012.80	14-APR-14	2,012.80	Reconciled
347683	09-APR-14	PRINCIPAL LIFE INSURANCE 1	26,565.51	16-APR-14	26,565.51	Reconciled
347684	09-APR-14	REACH EMPLOYEE ASSISTANCE INC	868.00	15-APR-14	868.00	Reconciled
347685	09-APR-14	McNulty, Amy K (Amy)	31.42	18-APR-14	31.42	Reconciled
347686	09-APR-14	Compton, Christine A	95.48	30-APR-14	95.48	Reconciled
347687	09-APR-14	Fike, Ethan O (Ethan)	148.00	10-APR-14	148.00	Reconciled
347688	09-APR-14	Jackson, Gina C (Gina)	142.36	11-APR-14	142.36	Reconciled
347689	09-APR-14	Sosa, Ives (Ives)	46.42	10-APR-14	46.42	Reconciled
347690	09-APR-14	Pan, Jenny W (Jenny)	17.70	18-APR-14	17.70	Reconciled
347691	09-APR-14	Perez, Martin C (Martin)	30.12	17-APR-14	30.12	Reconciled
347692	09-APR-14	Mori, Richard K (Rich)	27.44	14-APR-14	27.44	Reconciled
347693	09-APR-14	Ashby, Robert L (Rob)	230.00	11-APR-14	230.00	Reconciled
347694	09-APR-14	Reed, Shannon (Shannon)	10.70	18-APR-14	10.70	Reconciled
347695	09-APR-14	LaMar, Steven E	108.96	25-APR-14	108.96	Reconciled
347696	09-APR-14	AIRGAS-WEST, INC.	95.66	14-APR-14	95.66	Reconciled
347697	09-APR-14	ALHAMBRA FOUNDRY CO LTD	8,158.97	16-APR-14	8,158.97	Reconciled
347698	09-APR-14	ALL AMERICAN SEWER TOOLS	1,017.02	15-APR-14	1,017.02	Reconciled
347699	09-APR-14	ALPHA TRAFFIC SERVICES, INC.	520.00	11-APR-14	520.00	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and FR Page: 10
 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								
347700	09-APR-14	09-APR-14	AMERICAN GEOTECHNICAL, INC.		768.00	11-APR-14	768.00	Reconciled
347701	09-APR-14	09-APR-14	ANDERSONPENNA PARTNERS, INC		15,200.00	17-APR-14	15,200.00	Reconciled
347702	09-APR-14	09-APR-14	APPLIED INDUSTRIAL TECHNOLOGIES - CA LLC		1,554.68	14-APR-14	1,554.68	Reconciled
347703	09-APR-14	09-APR-14	AT&T		3,010.65	15-APR-14	3,010.65	Reconciled
347704	09-APR-14	09-APR-14	AUTOZONE PARTS, INC.		306.89	14-APR-14	306.89	Reconciled
347705	09-APR-14	09-APR-14	BANK OF AMERICA MERRILL LYNCH		320.55	14-APR-14	320.55	Reconciled
347706	09-APR-14	09-APR-14	BATTERIES PLUS AND BATTERIES PLUS BULBS		352.73	25-APR-14	352.73	Reconciled
347707	09-APR-14	09-APR-14	BATTERY SPECIALTIES		3,667.68	16-APR-14	3,667.68	Reconciled
347708	09-APR-14	09-APR-14	BOYD & ASSOCIATES		370.00	14-APR-14	370.00	Reconciled
347709	09-APR-14	09-APR-14	BRITHINEE ELECTRIC		14,754.08	17-APR-14	14,754.08	Reconciled
347710	09-APR-14	09-APR-14	BTF PRECISE MICROBIOLOGY INC.		525.20	15-APR-14	525.20	Reconciled
347711	09-APR-14	09-APR-14	CALIFORNIA BARRICADE INC		2,860.00	14-APR-14	2,860.00	Reconciled
347712	09-APR-14	09-APR-14	CANON FINANCIAL SERVICES, INC		1,617.88	14-APR-14	1,617.88	Reconciled
347713	09-APR-14	09-APR-14	CANON SOLUTIONS AMERICA, INC.		167.37	14-APR-14	167.37	Reconciled
347714	09-APR-14	09-APR-14	CARL WARREN & CO		4,616.07	14-APR-14	4,616.07	Reconciled
347715	09-APR-14	09-APR-14	CHEM TECH INTERNATIONAL INC		10,667.80	21-APR-14	10,667.80	Reconciled
347716	09-APR-14	09-APR-14	CITY OF IRVINE		33,185.65	17-APR-14	33,185.65	Reconciled
347717	09-APR-14	09-APR-14	CITY OF SANTA ANA		77.04	14-APR-14	77.04	Reconciled
347718	09-APR-14	09-APR-14	CITY OF TUSTIN		255.88	14-APR-14	255.88	Reconciled
347719	09-APR-14	09-APR-14	CONEYBEARE INC		10,952.36	17-APR-14	10,952.36	Reconciled
347720	09-APR-14	09-APR-14	CR & R INCORPORATED		12.30	15-APR-14	12.30	Reconciled
347721	09-APR-14	09-APR-14	CREDENTIAL CHECK CORPORATION		58.08	15-APR-14	58.08	Reconciled
347722	09-APR-14	09-APR-14	CUMMINS CAL PACIFIC LLC		390.60	14-APR-14	390.60	Reconciled
347723	09-APR-14	09-APR-14	CYBERNETICS		19,745.00	17-APR-14	19,745.00	Reconciled
347724	09-APR-14	09-APR-14	D & G SIGNS		923.40	16-APR-14	923.40	Reconciled
347725	09-APR-14	09-APR-14	DCSE INC		7,640.00	16-APR-14	7,640.00	Reconciled
347726	09-APR-14	09-APR-14	DELL MARKETING LP		43,169.70	17-APR-14	43,169.70	Reconciled
347727	09-APR-14	09-APR-14	ENDRESS AND HAUSER INC		2,354.36	15-APR-14	2,354.36	Reconciled

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

Account: Checking AP and PR Page: 11
 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								
347728		09-APR-14	ENVIRONMENTAL EXPRESS INC		2,042.64	15-APR-14	2,042.64	Reconciled
347729		09-APR-14	ENVIRONMENTAL SCIENCE ASSOCIATES		24,307.60	18-APR-14	24,307.60	Reconciled
347730		09-APR-14	ENVIRONMENTAL WATER SOLUTIONS		177.19	14-APR-14	177.19	Reconciled
347731		09-APR-14	EXECUTIVE LIGHTING & ELECTRIC		1,345.21	11-APR-14	1,345.21	Reconciled
347732		09-APR-14	FARRELL & ASSOCIATES		199.39	15-APR-14	199.39	Reconciled
347733		09-APR-14	FEDEX		502.20	14-APR-14	502.20	Reconciled
347734		09-APR-14	FERGUSON ENTERPRISES, INC.		6,382.80	17-APR-14	6,382.80	Reconciled
347735		09-APR-14	FIRST CHOICE SERVICES		725.98	15-APR-14	725.98	Reconciled
347736		09-APR-14	FISHER SCIENTIFIC COMPANY LLC		565.98	14-APR-14	565.98	Reconciled
347737		09-APR-14	FITCH, INC.		7,000.00	21-APR-14	7,000.00	Reconciled
347738		09-APR-14	FOUNTAIN VALLEY PAINTS		964.44	11-APR-14	964.44	Reconciled
347739		09-APR-14	FRENVLEY, SANEER		102.99	01-MAY-14	102.99	Reconciled
347740		09-APR-14	GANAHL LUMBER CO.		225.01	16-APR-14	225.01	Reconciled
347741		09-APR-14	GRAINGER		84.08	14-APR-14	84.08	Reconciled
347742		09-APR-14	H2O INNOVATION USA INC		4,000.00	17-APR-14	4,000.00	Reconciled
347743		09-APR-14	HAAKER EQUIPMENT COMPANY		1,609.67	11-APR-14	1,609.67	Reconciled
347744		09-APR-14	HALDEMAN INC		173.88	14-APR-14	173.88	Reconciled
347745		09-APR-14	HARRINGTON INDUSTRIAL PLASTICS LLC		783.07	14-APR-14	783.07	Reconciled
347746		09-APR-14	HILL BROTHERS CHEMICAL COMPANY		4,681.80	11-APR-14	4,681.80	Reconciled
347747		09-APR-14	HOME DEPOT USA INC		29.47	15-APR-14	29.47	Reconciled
347748		09-APR-14	INORGANIC VENTURES INC		152.48	14-APR-14	152.48	Reconciled
347749		09-APR-14	IRVINE COMMUNITY DEVELOPMENT COMPANY LLC		562,912.06	21-APR-14	562,912.06	Reconciled
347750		09-APR-14	IRVINE PIPE & SUPPLY INC		2,295.19	11-APR-14	2,295.19	Reconciled
347751		09-APR-14	JCI JONES CHEMICALS INC		4,093.26	14-APR-14	4,093.26	Reconciled
347752		09-APR-14	KELLY SERVICES INC		1,568.60	14-APR-14	1,568.60	Reconciled
347753		09-APR-14	KENNEDY/JENKS CONSULTANTS INC		38,972.25	18-APR-14	38,972.25	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								
347754		09-APR-14	KIMBALL MIDWEST		2,691.91	17-APR-14	2,691.91	Reconciled
347755		09-APR-14	KS DIRECT LLC		1,468.80	11-APR-14	1,468.80	Reconciled
347756		09-APR-14	LEBLANC, DANIEL		37.57			Negotiable
347757		09-APR-14	LEIGHTON CONSULTING, INC.		445.00	11-APR-14	445.00	Reconciled
347758		09-APR-14	LUBRICATION ENGINEERS, INC.		758.98	14-APR-14	758.98	Reconciled
347759		09-APR-14	MAIN ELECTRIC SUPPLY COMPANY LLC		360.52	14-APR-14	360.52	Reconciled
347760		09-APR-14	MARKET-THINK LLC		3,900.00	23-APR-14	3,900.00	Reconciled
347761		09-APR-14	MC FADDEN-DALE INDUSTRIAL		56.57	11-APR-14	56.57	Reconciled
347762		09-APR-14	MC MASTER CARR SUPPLY CO		1,245.13	15-APR-14	1,245.13	Reconciled
347763		09-APR-14	MR CRANE INC		1,990.15	11-APR-14	1,990.15	Reconciled
347764		09-APR-14	MSC INDUSTRIAL SUPPLY CO		375.28	15-APR-14	375.28	Reconciled
347765		09-APR-14	NALCO CAL WATER, LLC		240.00	14-APR-14	240.00	Reconciled
347766		09-APR-14	NATURES IMAGE INC		1,591.86	11-APR-14	1,591.86	Reconciled
347767		09-APR-14	NEPTUNE TECHNOLOGY GROUP, INC.		84,669.84	21-APR-14	84,669.84	Reconciled
347768		09-APR-14	ON ASSIGNMENT LAB SUPPORT		2,240.64	14-APR-14	2,240.64	Reconciled
347769		09-APR-14	ONESOURCE DISTRIBUTORS LLC		9,845.71	17-APR-14	9,845.71	Reconciled
347770		09-APR-14	ORANGE COUNTY AUTO PARTS CO		451.45	11-APR-14	451.45	Reconciled

347771	09-APR-14	ORRICK, HERRINGTON & SUTCLIFFE LLP		50,000.00	17-APR-14	50,000.00	Reconciled
347772	09-APR-14	OUTSOURCE TECHNICAL LLC		62,416.00	16-APR-14	62,416.00	Reconciled
347773	09-APR-14	PAC RIM ENGINEERING		2,562.50	18-APR-14	2,562.50	Reconciled
347774	09-APR-14	PACIFIC GAS AND ELECTRIC COMPANY		28.72	16-APR-14	28.72	Reconciled
347775	09-APR-14	PAPER DEPOT DOCUMENT DESTRUCTION LLC		737.00	11-APR-14	737.00	Reconciled
347776	09-APR-14	PONTON INDUSTRIES INC		1,184.99	17-APR-14	1,184.99	Reconciled
347777	09-APR-14	PRAXAIR DISTRIBUTION INC		2,734.33	15-APR-14	2,734.33	Reconciled
347778	09-APR-14	PSOMAS		595.00	14-APR-14	595.00	Reconciled
347779	09-APR-14	PURE EFFECT INC		5,955.00	18-APR-14	5,955.00	Reconciled

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

Payment Register For 01-APR-14 To 30-APR-14
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 Display Supplier Address: No

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
347780		09-APR-14	RAINBOW DISPOSAL CO INC		506.33	14-APR-14	506.33	Reconciled
347781		09-APR-14	RAM AIR ENGINEERING INC		9,452.89	21-APR-14	9,452.89	Reconciled
347782		09-APR-14	REED, JAMES D		1,937.04			Negotiable
347783		09-APR-14	RESPONSE ENVELOPE, INC		3,335.31	17-APR-14	3,335.31	Reconciled
347784		09-APR-14	Bouslog, Richard		1,773.53	25-APR-14	1,773.53	Reconciled
347785		09-APR-14	RICHARD C SLADE & ASSOCIATES LLC		2,404.00	17-APR-14	2,404.00	Reconciled
347786		09-APR-14	RINCON TRUCK CENTER INC.		2,841.87	11-APR-14	2,841.87	Reconciled
347787		09-APR-14	RINGCLEAR LLC		55.08			Negotiable
347788		09-APR-14	ROCHESTER MIDLAND CORPORATION		2,073.24	15-APR-14	2,073.24	Reconciled
347789		09-APR-14	RYAN HERCO PRODUCTS CORP		474.56	14-APR-14	474.56	Reconciled
347790		09-APR-14	SANTA ANA BLUE PRINT		310.44	14-APR-14	310.44	Reconciled
347791		09-APR-14	SANTA MARGARITA FORD		11.08	11-APR-14	11.08	Reconciled
347792		09-APR-14	SANTIAGO AQUEDUCT COMMISSION		5,810.41	17-APR-14	5,810.41	Reconciled
347793		09-APR-14	SECURTEC DISTRICT PATROL INC		11,160.00	21-APR-14	11,160.00	Reconciled
347794		09-APR-14	SHAMROCK SUPPLY CO INC		1,709.19	14-APR-14	1,709.19	Reconciled
347795		09-APR-14	SIMI VALLEY LANDFILL AND RECYCLING CENTER		799.59	16-APR-14	799.59	Reconciled
347796		09-APR-14	SOUTH BAY FOUNDRY, INC		1,809.01	14-APR-14	1,809.01	Reconciled
347797		09-APR-14	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		2,609.64	16-APR-14	2,609.64	Reconciled
347798		09-APR-14	SOUTH COAST WATER CO.		40.00	15-APR-14	40.00	Reconciled
347799		09-APR-14	SOUTHERN CALIFORNIA EDISON COMPANY		150,448.87	11-APR-14	150,448.87	Reconciled
347800		09-APR-14	TEKDRAULICS		59,436.72	17-APR-14	59,436.72	Reconciled
347801		09-APR-14	TETRA TECH, INC		26,301.26	18-APR-14	26,301.26	Reconciled
347802		09-APR-14	THE FURMAN GROUP		10,716.00	18-APR-14	10,716.00	Reconciled
347803		09-APR-14	THE GAS COMPANY		2,902.18	16-APR-14	2,902.18	Reconciled
347804		09-APR-14	THOMAS HARDER & CO		1,020.00	14-APR-14	1,020.00	Reconciled

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

Payment Register For 01-APR-14 To 30-APR-14
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 Display Supplier Address: No

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
347805		09-APR-14	TROPICAL PLAZA NURSERY INC		9,843.62	16-APR-14	9,843.62	Reconciled
347806		09-APR-14	TRUCPARCO		347.93	16-APR-14	347.93	Reconciled
347807		09-APR-14	TRUGREEN LANDCARE LLC		24,710.47	17-APR-14	24,710.47	Reconciled
347808		09-APR-14	ULTRA SCIENTIFIC		540.68	15-APR-14	540.68	Reconciled
347809		09-APR-14	UNITED INDUSTRIES		432.48	17-APR-14	432.48	Reconciled
347810		09-APR-14	UNITED PARCEL SERVICE INC		106.59	14-APR-14	106.59	Reconciled
347811		09-APR-14	UNITED STATES POST OFFICE		24,580.00	21-APR-14	24,580.00	Reconciled

347812	09-APR-14	VERIZON WIRELESS SERVICES LLC		724.20	15-APR-14	724.20	Reconciled
347813	09-APR-14	VWR INTERNATIONAL, LLC		3,572.12	14-APR-14	3,572.12	Reconciled
347814	09-APR-14	WALTERS WHOLESALE ELECTRIC		1,188.16	16-APR-14	1,188.16	Reconciled
347815	09-APR-14	WALTON MOTORS & CONTROLS INC		36,162.53	16-APR-14	36,162.53	Reconciled
347816	09-APR-14	WARD, KAREN		41.72	21-APR-14	41.72	Reconciled
347817	09-APR-14	WASTE MANAGEMENT OF ORANGE COUNTY		2,358.82	16-APR-14	2,358.82	Reconciled
347818	09-APR-14	WAXIE'S ENTERPRISES, INC		1,109.32	15-APR-14	1,109.32	Reconciled
347819	09-APR-14	WEST COAST SAFETY SUPPLY INC		2,146.42	16-APR-14	2,146.42	Reconciled
347820	09-APR-14	WILMINGTON INSTRUMENT COMPANY INC		5,241.31	17-APR-14	5,241.31	Reconciled
347821	09-APR-14	ZHANG, CHRISTINE		262.73	24-APR-14	262.73	Reconciled
347822	14-APR-14	JCI JONES CINCINNATI		5,505.50	21-APR-14	5,505.50	Reconciled
347823	14-APR-14	CHEMICALS INC	ORANGE	6,319.30	16-APR-14	6,319.30	Reconciled
347824	14-APR-14	DELTA SYSTEMS ENGINEERING INC	PHOENIX	63,522.00	17-APR-14	63,522.00	Reconciled
347825	14-APR-14	SHOETERIA INDUSTRIAL	PAY	8,757.25	18-APR-14	8,757.25	Reconciled
347826	14-APR-14	BIGWIG MONSTER, LLC	IRVINE	3,150.00	15-APR-14	3,150.00	Reconciled
347827	16-APR-14	Kelly, Cheryl D (Cheryl)		104.72	21-APR-14	104.72	Reconciled
347828	16-APR-14	Compton, Christine A		31.36	30-APR-14	31.36	Reconciled
347829	16-APR-14	Bonkowski, Leslie A (Leslie)		251.46	21-APR-14	251.46	Reconciled

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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								
347830		16-APR-14	Chandler, Michael J (Mike)		244.00	23-APR-14	244.00	Reconciled
347831		16-APR-14	Castaneda, Natalie N (Natalie)		199.99	28-APR-14	199.99	Reconciled
347832		16-APR-14	Lee, Randy C		25.00			Negotiable
347833		16-APR-14	Olson, Richard Jr (Richard)		125.00			Negotiable
347834		16-APR-14	Bonkowski, Thomas J (Thomas)		28.11	21-APR-14	28.11	Reconciled
347835		16-APR-14	2S2G CONTRACTING, INC.		9,992.75	22-APR-14	9,992.75	Reconciled
347836		16-APR-14	ACE STAINLESS SUPPLY		375.72	21-APR-14	375.72	Reconciled
347837		16-APR-14	AIRGAS-WEST, INC.		1,631.88	21-APR-14	1,631.88	Reconciled
347838		16-APR-14	AKASON, ERIKA		128.54	24-APR-14	128.54	Reconciled
347839		16-APR-14	ALL COUNTIES COURIER		520.33	18-APR-14	520.33	Reconciled
347840		16-APR-14	ALPHA TRAFFIC SERVICES, INC.		570.00	28-APR-14	570.00	Reconciled
347841		16-APR-14	AMINIAN, HAMID		1,034.22	01-MAY-14	1,034.22	Reconciled
347842		16-APR-14	AN IDEAL WORLD		936.31	18-APR-14	936.31	Reconciled
347843		16-APR-14	ANDERSONPENNA PARTNERS, INC		13,505.00	23-APR-14	13,505.00	Reconciled
347844		16-APR-14	APPLIED INDUSTRIAL TECHNOLOGIES - CA LLC		60.78	21-APR-14	60.78	Reconciled
347845		16-APR-14	ARCADIS U.S., INC.		41,256.28	24-APR-14	41,256.28	Reconciled
347846		16-APR-14	ARCEMENT, LINDSEY		20.39			Negotiable
347847		16-APR-14	AT&T		48.27	22-APR-14	48.27	Reconciled
347848		16-APR-14	AT&T		2,014.33	21-APR-14	2,014.33	Reconciled
347849		16-APR-14	AT&T		2,003.15	25-APR-14	2,003.15	Reconciled
347850		16-APR-14	AUTOZONE PARTS, INC.		46.83	21-APR-14	46.83	Reconciled
347851		16-APR-14	AUTOZONE PARTS, INC.		83.55	21-APR-14	83.55	Reconciled
347852		16-APR-14	BASSLER, DONALD		18.64	23-APR-14	18.64	Reconciled
347853		16-APR-14	BC TRAFFIC SPECIALIST		427.96	18-APR-14	427.96	Reconciled
347854		16-APR-14	BELL TOWER FLORIST & GIFTS		161.98			Negotiable
347855		16-APR-14	BELLINO, STEVEN JOHN		4,275.00	29-APR-14	4,275.00	Reconciled
347856		16-APR-14	BIOMAGIC INC		10,801.50	23-APR-14	10,801.50	Reconciled
347857		16-APR-14	BLACK & VEATCH CORPORATION		268,811.45	24-APR-14	268,811.45	Reconciled

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 16
 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								
347858		16-APR-14	BORCHARD SURVEYING & MAPPING, INC.		3,394.50	22-APR-14	3,394.50	Reconciled
347859		16-APR-14	BOTTOM LINE UTILITY SOLUTIONS, INC.		27,146.43	23-APR-14	27,146.43	Reconciled
347860		16-APR-14	BOWMAN, CHRISTOPHER		62.63	18-APR-14	62.63	Reconciled
347861		16-APR-14	BOYD & ASSOCIATES		135.00	21-APR-14	135.00	Reconciled
347862		16-APR-14	BOYD, KATHLEEN		58.06	22-APR-14	58.06	Reconciled
347863		16-APR-14	C WELLS PIPELINE MATERIALS INC		2,984.04	29-APR-14	2,984.04	Reconciled
347864		16-APR-14	CALIFORNIA BARRICADE INC		987.50	22-APR-14	987.50	Reconciled
347865		16-APR-14	CANON FINANCIAL SERVICES, INC		2,937.84	21-APR-14	2,937.84	Reconciled
347866		16-APR-14	CANON SOLUTIONS AMERICA, INC.		1,164.38	21-APR-14	1,164.38	Reconciled
347867		16-APR-14	CARDIAC SCIENCE CORPORATION		7,617.85	24-APR-14	7,617.85	Reconciled
347868		16-APR-14	CARL WARREN & CO		2,265.19	21-APR-14	2,265.19	Reconciled
347869		16-APR-14	CAROLLO ENGINEERS, INC		96,992.29	25-APR-14	96,992.29	Reconciled
347870		16-APR-14	CDW GOVERNMENT LLC		3,765.43	23-APR-14	3,765.43	Reconciled
347871		16-APR-14	CHA, SANDY		9.53	23-APR-14	9.53	Reconciled
347872		16-APR-14	CHABALLOUT, ADBUL		112.46	23-APR-14	112.46	Reconciled
347873		16-APR-14	CHANG, LI HSIN		27.16			Negotiable
347874		16-APR-14	CHAVIRA, SOMMER		29.32			Negotiable
347875		16-APR-14	CHEMTREC		675.00	21-APR-14	675.00	Reconciled
347876		16-APR-14	CHEN, ALLEN		65.22			Negotiable
347877		16-APR-14	CHEN, FLORA		0.59			Negotiable
347878		16-APR-14	CHU, MICHAEL		34.24	23-APR-14	34.24	Reconciled
347879		16-APR-14	CITY OF IRVINE		3,154.65	18-APR-14	3,154.65	Reconciled
347880		16-APR-14	CITY OF SANTA ANA		19,760.37	28-APR-14	19,760.37	Reconciled
347881		16-APR-14	CITY OF TUSTIN		510.42	18-APR-14	510.42	Reconciled
347882		16-APR-14	CLA-VAL COMPANY		7,545.50	22-APR-14	7,545.50	Reconciled
347883		16-APR-14	COAST DEVELOPMENT GROUP INC		56.09	30-APR-14	56.09	Reconciled
347884		16-APR-14	CONEYBEARE INC		12,524.98	24-APR-14	12,524.98	Reconciled
347885		16-APR-14	CORDOVA, RAMON		29.34	28-APR-14	29.34	Reconciled
347886		16-APR-14	D & G SIGNS		4,269.00	23-APR-14	4,269.00	Reconciled
347887		16-APR-14	DAVIS INSTRUMENTS		1,185.60	21-APR-14	1,185.60	Reconciled
347888		16-APR-14	DDIER, SAM		29.79	28-APR-14	29.79	Reconciled
347889		16-APR-14	DRUM, SHERRI		43.59	21-APR-14	43.59	Reconciled
347890		16-APR-14	DRUM, KEVIN		17.16			Negotiable
347891		16-APR-14	DYSON, KATHLEEN		55.66	22-APR-14	55.66	Reconciled
347892		16-APR-14	DZOAN, NINH		22.74			Negotiable
IRWD Ledger								
BANK: Bank of America N.A.			Branch : Los Angeles			Payment Register For 01-APR-14 To 30-APR-14		Report Date: 02-MAY-2014 08:49
Bank Account Currency: USD (US Dollar)			Payment Currency: USD (US Dollar)			Account: Checking AP and PR		Page: 17
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								
347893		16-APR-14	EI&C ENGINEERING INC		7,470.00	28-APR-14	7,470.00	Reconciled
347894		16-APR-14	ENTERPRISE SECURITY, INC		3,156.09	21-APR-14	3,156.09	Reconciled
347895		16-APR-14	ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.		28,599.47	22-APR-14	28,599.47	Reconciled
347896		16-APR-14	ENVIRONMENTAL RESOURCE ASSOCIATES		1,339.16	23-APR-14	1,339.16	Reconciled
347897		16-APR-14	ENVIRONMENTAL SCIENCE ASSOCIATES		970.00	22-APR-14	970.00	Reconciled
347898		16-APR-14	EO MACARTHUR LLC		1,563.00	29-APR-14	1,563.00	Reconciled
347899		16-APR-14	EOM, SAM		54.24			Negotiable
347900		16-APR-14	EXECUTIVE LIGHTING & ELECTRIC		1,698.52	21-APR-14	1,698.52	Reconciled
347901		16-APR-14	EXPRESSAIR		126.00			Negotiable
347902		16-APR-14	FARRELL & ASSOCIATES		451.68	21-APR-14	451.68	Reconciled
347903		16-APR-14	FAYLOR, CHRISTOPHER		90.47	22-APR-14	90.47	Reconciled
347904		16-APR-14	FEDEX		370.78	22-APR-14	370.78	Reconciled
347905		16-APR-14	FISHER SCIENTIFIC COMPANY LLC		3,531.27	21-APR-14	3,531.27	Reconciled
347906		16-APR-14	G.M. SAGER CONSTRUCTION CO, INC		48,000.00	22-APR-14	48,000.00	Reconciled
347907		16-APR-14	GALACIA, LAUREN		29.16	22-APR-14	29.16	Reconciled
347908		16-APR-14	GARZA INDUSTRIES, INC		1,381.97	18-APR-14	1,381.97	Reconciled
347909		16-APR-14	GRAINGER		990.09	21-APR-14	990.09	Reconciled
347910		16-APR-14	GREMME, DOUGH		82.57			Negotiable

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347911	16-APR-14	GRUENWALD, THOMAS	61.84	29-APR-14	61.84	Reconciled
347912	16-APR-14	HA, SEUNG H	20.13	28-APR-14	20.13	Reconciled
347913	16-APR-14	HARMSWORTH ASSOCIATES	4,810.00	22-APR-14	4,810.00	Reconciled
347914	16-APR-14	HILL BROTHERS CHEMICAL COMPANY	10,944.64	23-APR-14	10,944.64	Reconciled
347915	16-APR-14	HOME DEPOT USA INC	884.09	21-APR-14	884.09	Reconciled
347916	16-APR-14	HOWELL, JENNIFER	59.35	21-APR-14	59.35	Reconciled
347917	16-APR-14	HSG INC	1,536.00	21-APR-14	1,536.00	Reconciled
347918	16-APR-14	HUNSAKER & ASSOCIATES IRVINE	448.00	21-APR-14	448.00	Reconciled
347919	16-APR-14	IDEXX DISTRIBUTION, INC	2,150.81	21-APR-14	2,150.81	Reconciled
347920	16-APR-14	IGER, TODD	52.76	23-APR-14	52.76	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 18
 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								
347921		16-APR-14	II FUELS INC		28,190.24	22-APR-14	28,190.24	Reconciled
347922		16-APR-14	INDUSTRIAL METAL SUPPLY CO		820.40	21-APR-14	820.40	Reconciled
347923		16-APR-14	INDUSTRIAL SURPLUS AND SALVAGE		1,150.00			Negotiable
347924		16-APR-14	INZITARI, JOE		82.87			Negotiable
347925		16-APR-14	IO MAGIC		304.45	30-APR-14	304.45	Reconciled
347926		16-APR-14	IRON MOUNTAIN INFORMATION MANAGEMENT INC		1,977.95	21-APR-14	1,977.95	Reconciled
347927		16-APR-14	IRVINE COMMUNITY DEVELOPMENT COMPANY LLC		271,007.77	28-APR-14	271,007.77	Reconciled
347928		16-APR-14	IRVINE PACIFIC, LP		390.51	24-APR-14	390.51	Reconciled
347929		16-APR-14	IRVINE PIPE & SUPPLY INC		1,105.52	18-APR-14	1,105.52	Reconciled
347930		16-APR-14	IRWD-PETTY CASH CUSTODIAN		784.02	17-APR-14	784.02	Reconciled
347931		16-APR-14	JACOBSON, VERONICA		71.18			Negotiable
347932		16-APR-14	JOHN G. ALEVIZOS D.O. INC.		590.48	21-APR-14	590.48	Reconciled
347933		16-APR-14	KAHAZANEH, LIDA		29.16	28-APR-14	29.16	Reconciled
347934		16-APR-14	KB HOMES		116.85	29-APR-14	116.85	Reconciled
347935		16-APR-14	KB PROPERTIES		172.01	22-APR-14	172.01	Reconciled
347936		16-APR-14	KING, ASHLEY		101.37			Negotiable
347937		16-APR-14	KLEIN, MARK		56.92	28-APR-14	56.92	Reconciled
347938		16-APR-14	KRESS, TANNER		101.16			Negotiable
347939		16-APR-14	KS DIRECT LLC		518.40	21-APR-14	518.40	Reconciled
347940		16-APR-14	LAGUNA PACIFIC INTERNATIONAL		12.58	22-APR-14	12.58	Reconciled
347941		16-APR-14	LEE & RO, INC.		3,844.83	18-APR-14	3,844.83	Reconciled
347942		16-APR-14	LEE, CHEN CHANG		44.78			Negotiable
347943		16-APR-14	LGC GEOTECHNICAL, INC.		492.50	18-APR-14	492.50	Reconciled
347944		16-APR-14	LIGHTING RESOURCES, LLC		128.70	21-APR-14	128.70	Reconciled
347945		16-APR-14	LILLESTRAND LEADERSHIP CONSULTING, INC.		1,758.66			Negotiable
347946		16-APR-14	LYNNETTE, GOLD		28.25			Negotiable
347947		16-APR-14	MAHINI, FARAH		28.32	21-APR-14	28.32	Reconciled
347948		16-APR-14	MAGEE, JOHN		34.24	22-APR-14	34.24	Reconciled
347949		16-APR-14	MARKET-THINK LLC		521.06	23-APR-14	521.06	Reconciled
347950		16-APR-14	MARX, NANCY		17.00	21-APR-14	17.00	Reconciled
347951		16-APR-14	MC MASTER CARR SUPPLY CO		333.66	21-APR-14	333.66	Reconciled

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 19
 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								
347952		16-APR-14	MCBAIN SYSTEMS LP		5,131.73	23-APR-14	5,131.73	Reconciled
347953		16-APR-14	MEDIA STREAM PARTNERS		47.33	25-APR-14	47.33	Reconciled
347954		16-APR-14	MEILICKE, STEVE		10.48	21-APR-14	10.48	Reconciled
347955		16-APR-14	MENDEL, DEREK A		27.10	25-APR-14	27.10	Reconciled
347956		16-APR-14	MORAN, BEATRICE		13.48	25-APR-14	13.48	Reconciled
347957		16-APR-14	MORROW-MEADOWS CORPORATION		3,679.00	18-APR-14	3,679.00	Reconciled
347958		16-APR-14	MULNE, CAROLYN		289.11	21-APR-14	289.11	Reconciled
347959		16-APR-14	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY		750.00	21-APR-14	750.00	Reconciled
347960		16-APR-14	MURRAY, THOMAS		71.71	23-APR-14	71.71	Reconciled

347961	16-APR-14	NANGIN, KEVIN	110.26	23-APR-14	110.26	Reconciled
347962	16-APR-14	NATIONAL READY MIXED CONCRETE CO	1,967.20	21-APR-14	1,967.20	Reconciled
347963	16-APR-14	NATURALWELL, LLC	1,100.00	18-APR-14	1,100.00	Reconciled
347964	16-APR-14	NEW FIG CORPORATION	240.94	22-APR-14	240.94	Reconciled
347965	16-APR-14	NMG GEOTECHNICAL INC	70,035.95	23-APR-14	70,035.95	Reconciled
347966	16-APR-14	NOVELLA, JAMES	460.00	23-APR-14	460.00	Reconciled
347967	16-APR-14	O G SUPPLY	465.37	22-APR-14	465.37	Reconciled
347968	16-APR-14	O'HAREN GOVERNMENT RELATIONS	6,500.00	29-APR-14	6,500.00	Reconciled
347969	16-APR-14	OLIN CORPORATION	25,579.35	24-APR-14	25,579.35	Reconciled
347970	16-APR-14	ON ASSIGNMENT LAB SUPPORT	1,369.28	21-APR-14	1,369.28	Reconciled
347971	16-APR-14	ONESOURCE DISTRIBUTORS LLC	597.94	21-APR-14	597.94	Reconciled
347972	16-APR-14	ORANGE COUNTY AUTO PARTS CO	884.47	18-APR-14	884.47	Reconciled
347973	16-APR-14	ORANGE COUNTY FIRE AUTHORITY	242.00	22-APR-14	242.00	Reconciled
347974	16-APR-14	ORANGE COUNTY SANITATION DISTRICT	126,105.49	22-APR-14	126,105.49	Reconciled
347975	16-APR-14	OYAMA, REI	32.58	28-APR-14	32.58	Reconciled
347976	16-APR-14	PARKHOUSE TIRE INC	431.40	22-APR-14	431.40	Reconciled
347977	16-APR-14	PARKWAY LAWNMOWER SHOP	75.18	21-APR-14	75.18	Reconciled
347978	16-APR-14	PATE, NAVNEET	14.01	28-APR-14	14.01	Reconciled
347979	16-APR-14	PAUL E BRADLEY INC	3,870.00	28-APR-14	3,870.00	Reconciled
347980	16-APR-14	PIVOT INTERIORS INC	845.44	18-APR-14	845.44	Reconciled

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 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								
347981		16-APR-14	PONTON INDUSTRIES INC		431.69	25-APR-14	431.69	Reconciled
347982		16-APR-14	PRAXAIR DISTRIBUTION INC		413.66	21-APR-14	413.66	Reconciled
347983		16-APR-14	PREMIER PAVING INC		401.09	18-APR-14	401.09	Reconciled
347984		16-APR-14	PSB INTEGRATED MARKETING		2,990.00	18-APR-14	2,990.00	Reconciled
347985		16-APR-14	PTI SAND & GRAVEL INC		1,410.28	23-APR-14	1,410.28	Reconciled
347986		16-APR-14	QUINN RENTAL SERVICES		476.29	21-APR-14	476.29	Reconciled
347987		16-APR-14	RAM AIR ENGINEERING INC		2,913.47	21-APR-14	2,913.47	Reconciled
347988		16-APR-14	REESE, JOHN		35.01			Negotiable
347989		16-APR-14	REYNOLDS, MARK		59.55			Negotiable
347990		16-APR-14	RICHARDSON, SHEILA		45.14	23-APR-14	45.14	Reconciled
347991		16-APR-14	RINCON TRUCK CENTER INC.		19.87	18-APR-14	19.87	Reconciled
347992		16-APR-14	ROETZER, ERIC		24.39	21-APR-14	24.39	Reconciled
347993		16-APR-14	ROWLAND, RICHELLE		28.25	22-APR-14	28.25	Reconciled
347994		16-APR-14	RUSSOM, LAURA		11.59			Negotiable
347995		16-APR-14	RYAN, JAMES		19.86	22-APR-14	19.86	Reconciled
347996		16-APR-14	SANDERS PAVING INC		15,242.00			Negotiable
347997		16-APR-14	SANTA ANA BLUE PRINT		1,087.52	23-APR-14	1,087.52	Reconciled
347998		16-APR-14	SARRIS, ALEX		29.04	22-APR-14	29.04	Reconciled
347999		16-APR-14	SEAL ANALYTICAL INC		305.56	21-APR-14	305.56	Reconciled
348000		16-APR-14	SECURTEC DISTRICT PATROL INC		2,200.00	21-APR-14	2,200.00	Reconciled
348001		16-APR-14	SEIZEW, MICHAEL		24.56			Negotiable
348002		16-APR-14	SEROTA, NANCY		26.74	21-APR-14	26.74	Reconciled
348003		16-APR-14	SHADBOLT, FRANK		12.79			Negotiable
348004		16-APR-14	SHAMROCK SUPPLY CO INC		3.62	18-APR-14	3.62	Reconciled
348005		16-APR-14	SOUTHERN CALIFORNIA EDISON COMPANY		39,026.13	18-APR-14	39,026.13	Reconciled
348006		16-APR-14	SOUTHERN CALIFORNIA SECURITY CENTER, INC.		80.14	24-APR-14	80.14	Reconciled
348007		16-APR-14	SPARKLETTTS		261.13	23-APR-14	261.13	Reconciled
348008		16-APR-14	SPRING, BEVERLY		39.34	21-APR-14	39.34	Reconciled
348009		16-APR-14	SS MECHANICAL CORPORATION		58,443.64	24-APR-14	58,443.64	Reconciled

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 BANK: Bank of America N.A. Branch: Los Angeles Account: Checking AP and PR Page: 21
 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								
348010		16-APR-14	STANDFORD COURT APARTMENT		17.00	24-APR-14	17.00	Reconciled
348011		16-APR-14	STRAIGHT-LINE SOLUTIONS		1,371.65	25-APR-14	1,371.65	Reconciled
348012		16-APR-14	TAI, CHUNNI		29.88			Negotiable
348013		16-APR-14	TAVLIN, SHIRLEY		33.19	01-MAY-14	33.19	Reconciled
348014		16-APR-14	TEKDRUALICS		5,217.21	24-APR-14	5,217.21	Reconciled
348015		16-APR-14	THE GAS COMPANY		1,590.35	24-APR-14	1,590.35	Reconciled
348016		16-APR-14	THE NEW HOME COMPANY		102.81	30-APR-14	102.81	Reconciled
348017		16-APR-14	THYSSENKRUPP ELEVATOR		168.18	21-APR-14	168.18	Reconciled
348018		16-APR-14	TNT WELDING AND FABRICATION		4,250.00	21-APR-14	4,250.00	Reconciled
348019		16-APR-14	TODAY REAL ESTATE		17.00	24-APR-14	17.00	Reconciled
348020		16-APR-14	TRANG, LINDA		64.61			Negotiable
348021		16-APR-14	TROPICAL PLAZA NURSERY INC		2,127.31	18-APR-14	2,127.31	Reconciled
348022		16-APR-14	TRUCPARCO		3,134.81	22-APR-14	3,134.81	Reconciled
348023		16-APR-14	TRUGREEN LANDCARE LLC		390.24	21-APR-14	390.24	Reconciled
348024		16-APR-14	ULTRA SCIENTIFIC		1,141.85	22-APR-14	1,141.85	Reconciled
348025		16-APR-14	UNITED PARCEL SERVICE INC		48.28	21-APR-14	48.28	Reconciled
348026		16-APR-14	UNITED SITE SERVICES OF CALIFORNIA INC		458.67	21-APR-14	458.67	Reconciled
348027		16-APR-14	UNITED STATES POSTAL SERVICE		52.14	28-APR-14	52.14	Reconciled
348028		16-APR-14	URS CORPORATION		22,500.75	24-APR-14	22,500.75	Reconciled
348029		16-APR-14	VERIZON CALIFORNIA INC		45.84	23-APR-14	45.84	Reconciled
348030		16-APR-14	VON KARMAN-IRVINE ASSOCIATES		1,158.83	28-APR-14	1,158.83	Reconciled
348031		16-APR-14	VWR INTERNATIONAL, LLC		287.12	21-APR-14	287.12	Reconciled
348032		16-APR-14	WALTERS WHOLESAL E ELECTRIC		1,092.71	23-APR-14	1,092.71	Reconciled
348033		16-APR-14	WANG, MARGARET		44.87	23-APR-14	44.87	Reconciled
348034		16-APR-14	WANG, YOUNGMEI		30.07	22-APR-14	30.07	Reconciled
348035		16-APR-14	WATERLINE TECHNOLOGIES INC		2,840.00	18-APR-14	2,840.00	Reconciled
348036		16-APR-14	WATERSMART SOFTWARE INC		7,500.00	28-APR-14	7,500.00	Reconciled
348037		16-APR-14	WAVE IMAGING CORPORATION		77.33	21-APR-14	77.33	Reconciled

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 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								
348038		16-APR-14	WAXIE'S ENTERPRISES, INC		502.01	21-APR-14	502.01	Reconciled
348039		16-APR-14	WECK LABORATORIES INC		465.00	18-APR-14	465.00	Reconciled
348040		16-APR-14	WEST COURT ALTON, LLC		978.06			Negotiable
348041		16-APR-14	WESTERN EXTERMINATOR COMPANY		9,040.00	24-APR-14	9,040.00	Reconciled
348042		16-APR-14	WESTIN ENGINEERING, INC		7,442.50	24-APR-14	7,442.50	Reconciled
348043		16-APR-14	WESTWOOD HOLDINGS INC		377.72	23-APR-14	377.72	Reconciled
348044		16-APR-14	WILLIAM LYON HOMES		185.23			Negotiable
348045		16-APR-14	WONG, SPRING		32.80	30-APR-14	32.80	Reconciled
348046		16-APR-14	WOODBIDGE STONEGATE MAINTENANCE ASSOCIATION		947.66	22-APR-14	947.66	Reconciled
348047		16-APR-14	WORKFLOWONE		2,345.88	21-APR-14	2,345.88	Reconciled
348048		16-APR-14	YANG, STEVEN		26.28	28-APR-14	26.28	Reconciled
348049		16-APR-14	YOO, PHILLIP		214.09	28-APR-14	214.09	Reconciled
348050		16-APR-14	YORK INSURANCE SERVICES GROUP INC - CA		7,936.25	22-APR-14	7,936.25	Reconciled
348051		16-APR-14	ZEBRON CONTRACTING INC		19,730.00	24-APR-14	19,730.00	Reconciled
348052		21-APR-14	CLEARINGHOUSE	PHOENIX	548.29	23-APR-14	548.29	Reconciled
348053		21-APR-14	INTERNAL REVENUE SERVICE	FRESNO	100.00	30-APR-14	100.00	Reconciled
348054		21-APR-14	PERS LONG TERM CARE	PASADENA	738.95	24-APR-14	738.95	Reconciled
348055		21-APR-14	IRWD EMPLOYEE	IRVINE	750.00			Negotiable

348056	23-APR-14	ASSOCIATION PSB INTEGRATED LAKE MARKETING FOREST	33,350.09	01-MAY-14	33,350.09	Reconciled
348057	24-APR-14	CALIFORNIA DEPT OF RICHMOND PUBLIC HEALTH	452.00			Negotiable
348058	24-APR-14	SOUTH COAST AIR DIAMOND QUALITY MANAGEMENTBAR 2 DISTRICT	546.46			Negotiable
348059	24-APR-14	SOUTH COAST AIR PAY QUALITY MANAGEMENT DISTRICT	1,427.28	28-APR-14	1,427.28	Reconciled
348060	24-APR-14	HYDE, JIM DANA POINT	9,000.00			Negotiable

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 23
 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								
348061		24-APR-14	TRANSPORTATION PURCHASE CHARTER SERVICES		233.10			Negotiable
348062		24-APR-14	MUNICIPAL WATER FOUNTAIN DISTRICT OF ORANGEVALLEY COUNTY		60,200.00	25-APR-14	60,200.00	Reconciled
348063		24-APR-14	SOUTH COAST AIR DIAMOND QUALITY MANAGEMENTBAR DISTRICT		146.62	29-APR-14	146.62	Reconciled
348064		24-APR-14	Calderon, Alfonso		94.74			Negotiable
348065		24-APR-14	David Perez		120.00			Negotiable
348066		24-APR-14	Reinhart, Douglas J		36.12			Negotiable
348067		24-APR-14	Moeder, Jacob J (Jacob)		22.00	25-APR-14	22.00	Reconciled
348068		24-APR-14	Pan, Jenny W (Jenny)		22.29	28-APR-14	22.29	Reconciled
348069		24-APR-14	Pfister, Ken D (Ken)		105.00	29-APR-14	105.00	Reconciled
348070		24-APR-14	Oldewage, Lars D (Lars)		47.20	25-APR-14	47.20	Reconciled
348071		24-APR-14	Ronin, Gretchen C HOME (Gretchen)		623.31	25-APR-14	623.31	Reconciled
348072		24-APR-14	Gronck, Joan D HOME		1,528.47	25-APR-14	1,528.47	Reconciled
348073		24-APR-14	ACCUSTANDARD INC		72.85	29-APR-14	72.85	Reconciled
348074		24-APR-14	ADT SECURITY SERVICES INC		371.31			Negotiable
348075		24-APR-14	AFLAC		7,248.72			Negotiable
348076		24-APR-14	AIRGAS-WEST, INC.		134.72	28-APR-14	134.72	Reconciled
348077		24-APR-14	AKM CONSULTING ENGINEERS, INC.		41,983.00	01-MAY-14	41,983.00	Reconciled
348078		24-APR-14	ALPHA TRAFFIC SERVICES, INC.		570.00	28-APR-14	570.00	Reconciled
348079		24-APR-14	ANDERSONPENNA PARTNERS, INC		16,197.50	01-MAY-14	16,197.50	Reconciled
348080		24-APR-14	ARMORCAST PRODUCTS COMPANY		5,504.37	01-MAY-14	5,504.37	Reconciled
348081		24-APR-14	AT&T		3,499.94	01-MAY-14	3,499.94	Reconciled
348082		24-APR-14	AT&T		50.36	30-APR-14	50.36	Reconciled
348083		24-APR-14	AT&T		4,044.40	29-APR-14	4,044.40	Reconciled
348084		24-APR-14	ATHENS SERVICES		896.56	28-APR-14	896.56	Reconciled
348085		24-APR-14	BANK OF AMERICA MERRILL LYNCH		26,093.84			Negotiable
348086		24-APR-14	BC TRAFFIC SPECIALIST		2,862.00	28-APR-14	2,862.00	Reconciled
348087		24-APR-14	BIGWIG MONSTER, LLC		12,000.00	30-APR-14	12,000.00	Reconciled

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 24
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
348088		24-APR-14	BILL'S SWEEPING SERVICE INC		460.00	28-APR-14	460.00	Reconciled
348089		24-APR-14	BIOMAGIC INC		12,181.59			Negotiable
348090		24-APR-14	BIOMERIEUX INC		257.27	29-APR-14	257.27	Reconciled
348091		24-APR-14	BK FOUNTAIN WORKS		1,686.33	28-APR-14	1,686.33	Reconciled
348092		24-APR-14	BOND LOGISTIX LLC		3,750.00	28-APR-14	3,750.00	Reconciled
348093		24-APR-14	BOWIE, ARNESON, WILES & GIANNONE		25,267.06			Negotiable
348094		24-APR-14	BRENNTAG PACIFIC INC		243.00	28-APR-14	243.00	Reconciled
348095		24-APR-14	BRITHINEE ELECTRIC		251.99	28-APR-14	251.99	Reconciled
348096		24-APR-14	BRUCE NEWELL		1,316.00	28-APR-14	1,316.00	Reconciled
348097		24-APR-14	C WELLS PIPELINE MATERIALS INC		3,134.16			Negotiable
348098		24-APR-14	CALIFORNIA		3,027.50	29-APR-14	3,027.50	Reconciled

348099	24-APR-14	BARRICADE INC CANON FINANCIAL SERVICES, INC	4,162.32	29-APR-14	4,162.32	Reconciled
348100	24-APR-14	CANON SOLUTIONS AMERICA, INC.	4,546.76	29-APR-14	4,546.76	Reconciled
348101	24-APR-14	CANON SOLUTIONS AMERICA, INC.	7,375.44	01-MAY-14	7,375.44	Reconciled
348102	24-APR-14	CHARLES P CROWLEY COMPANY INC	1,449.96	28-APR-14	1,449.96	Reconciled
348103	24-APR-14	CITIGROUP GLOBAL MARKETS INC.	2,995.89			Negotiable
348104	24-APR-14	CITY OF NEWPORT BEACH	1,210.29	28-APR-14	1,210.29	Reconciled
348105	24-APR-14	CITY OF ORANGE	16,300.00			Negotiable
348106	24-APR-14	CITY OF TUSTIN	116,811.91	01-MAY-14	116,811.91	Reconciled
348107	24-APR-14	CLA-VAL COMPANY	2,741.60	28-APR-14	2,741.60	Reconciled
348108	24-APR-14	CLEAN ENERGY	1,176.96	29-APR-14	1,176.96	Reconciled
348109	24-APR-14	CNC ENGINEERING, INC	5,507.50			Negotiable
348110	24-APR-14	COLONIAL LIFE & ACCIDENT INSURANCE CO.	1,995.20	28-APR-14	1,995.20	Reconciled
348111	24-APR-14	COMMERCE ENERGY INC	2,133.31	29-APR-14	2,133.31	Reconciled
348112	24-APR-14	CONEYBEARE INC	10,801.45			Negotiable
348113	24-APR-14	COX COMMUNICATIONS	3,244.28	28-APR-14	3,244.28	Reconciled
348114	24-APR-14	CREATIVE ALLIANCE GROUP LLC	4,564.41	29-APR-14	4,564.41	Reconciled
348115	24-APR-14	CUMMINS CAL PACIFIC LLC	1,986.71	28-APR-14	1,986.71	Reconciled
348116	24-APR-14	DATASITE INC	982.00			Negotiable

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 25
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
348117		24-APR-14	DEE JASPAR & ASSOCIATES, INC.		2,107.85	30-APR-14	2,107.85	Reconciled
348118		24-APR-14	DELPHIN COMPUTER SUPPLY		639.36	29-APR-14	639.36	Reconciled
348119		24-APR-14	DIRECTV INC		105.98	28-APR-14	105.98	Reconciled
348120		24-APR-14	DISCOVERY SCIENCE CENTER		6,715.38			Negotiable
348121		24-APR-14	DOUGLAS ENVIRONMENTAL GROUP INC		1,150.00	28-APR-14	1,150.00	Reconciled
348122		24-APR-14	DURANCEAU CONSULTING SERVICES, LLC		2,362.50	29-APR-14	2,362.50	Reconciled
348123		24-APR-14	EAGLE PRINT DYNAMICS		3,179.67	28-APR-14	3,179.67	Reconciled
348124		24-APR-14	EMPLOYEE BENEFIT SPECIALIST, INC		700.00	30-APR-14	700.00	Reconciled
348125		24-APR-14	ENVIRONMENTAL RESOURCE ASSOCIATES		1,813.38	29-APR-14	1,813.38	Reconciled
348126		24-APR-14	FEDEX		297.84	30-APR-14	297.84	Reconciled
348127		24-APR-14	FIRST CHOICE SERVICES		335.80	29-APR-14	335.80	Reconciled
348128		24-APR-14	FISERV		11,788.50	30-APR-14	11,788.50	Reconciled
348129		24-APR-14	FISHER SCIENTIFIC COMPANY LLC		5,313.20	01-MAY-14	5,313.20	Reconciled
348130		24-APR-14	FIVE POINT PARTNERS LLC		91,469.78			Negotiable
348131		24-APR-14	FLEET SOLUTIONS LLC		4,316.25	28-APR-14	4,316.25	Reconciled
348132		24-APR-14	GANAHL LUMBER CO.		3,314.01	29-APR-14	3,314.01	Reconciled
348133		24-APR-14	GCI CONSTRUCTION, INC.		177,464.75	30-APR-14	177,464.75	Reconciled
348134		24-APR-14	GENERAL ELECTRIC COMPANY		9,993.78			Negotiable
348135		24-APR-14	GENERAL PUMP COMPANY INC		14,340.50	01-MAY-14	14,340.50	Reconciled
348136		24-APR-14	GOLDEN STATE LABOR COMPLIANCE LLC		2,002.50			Negotiable
348137		24-APR-14	GRAINGER		1,876.28	28-APR-14	1,876.28	Reconciled
348138		24-APR-14	GREEN COAST INDUSTRIES, INC.		18,787.16			Negotiable
348139		24-APR-14	HACH COMPANY		3,169.38	29-APR-14	3,169.38	Reconciled
348140		24-APR-14	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY		137.58	29-APR-14	137.58	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								
348141		24-APR-14	HDR ENGINEERING INC		60,791.00			Negotiable
348142		24-APR-14	HILL BROTHERS CHEMICAL COMPANY		8,623.65	30-APR-14	8,623.65	Reconciled
348143		24-APR-14	HOME DEPOT USA INC		72.27	30-APR-14	72.27	Reconciled
348144		24-APR-14	HORACE MANN INSURANCE		9,807.05			Negotiable
348145		24-APR-14	INDUSTRIAL METAL SUPPLY CO		70.55	29-APR-14	70.55	Reconciled
348146		24-APR-14	IRVINE PIPE & SUPPLY INC		1,560.39	28-APR-14	1,560.39	Reconciled
348147		24-APR-14	JACOBS PROJECT MANAGEMENT CO.		35,000.00			Negotiable
348148		24-APR-14	KELLY SERVICES INC		998.16	29-APR-14	998.16	Reconciled
348149		24-APR-14	KENNEDY/JENKS CONSULTANTS INC		16,421.25			Negotiable
348150		24-APR-14	KENNY THE PRINTER		3,553.36	28-APR-14	3,553.36	Reconciled
348151		24-APR-14	KENT & AMY DAHLBERG		1,368.00	29-APR-14	1,368.00	Reconciled
348152		24-APR-14	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES		3,445.00			Negotiable
348153		24-APR-14	LA HABRA FENCE COMPANY INC		9,458.00			Negotiable
348154		24-APR-14	LEWIS OPERATING CORP		1,000.00	29-APR-14	1,000.00	Reconciled
348155		24-APR-14	LILLESTRAND LEADERSHIP CONSULTING, INC.		3,667.84			Negotiable
348156		24-APR-14	LU'S LIGHTHOUSE, INC.		84.81	28-APR-14	84.81	Reconciled
348157		24-APR-14	MARVIN GARDENS LLC		2,705.70	24-APR-14	2,705.70	Reconciled
348158		24-APR-14	MC MASTER CARR SUPPLY CO		1,349.25	28-APR-14	1,349.25	Reconciled
348159		24-APR-14	MCR TECHNOLOGIES INC		1,031.67	28-APR-14	1,031.67	Reconciled
348160		24-APR-14	MOBILE MODULAR MANAGEMENT CORPORATION		972.00	28-APR-14	972.00	Reconciled
348161		24-APR-14	MSC INDUSTRIAL SUPPLY CO		162.75	30-APR-14	162.75	Reconciled
348162		24-APR-14	NURSERY PRODUCTS LLC		12,882.76			Negotiable
348163		24-APR-14	OLIN CORPORATION		17,151.35			Negotiable
348164		24-APR-14	ON ASSIGNMENT LAB SUPPORT		2,240.64	28-APR-14	2,240.64	Reconciled

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 27
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
348165		24-APR-14	ONESOURCE DISTRIBUTORS LLC		3,712.23	28-APR-14	3,712.23	Reconciled
348166		24-APR-14	ORANGE COUNTY AUTO PARTS CO		1,702.44	28-APR-14	1,702.44	Reconciled
348167		24-APR-14	ORANGE COUNTY BUSINESS COUNCIL		5,000.00	30-APR-14	5,000.00	Reconciled
348168		24-APR-14	ORANGE COUNTY TREASURER		148.50	28-APR-14	148.50	Reconciled
348169		24-APR-14	PACIFIC GAS AND ELECTRIC COMPANY		288.00	29-APR-14	288.00	Reconciled
348170		24-APR-14	PACIFIC HYDROTECH CORPORATION		224,489.70			Negotiable
348171		24-APR-14	PACIFIC HYDROTECH CORPORATION		23,110.28			Negotiable
348172		24-APR-14	PACIFIC PARTS & CONTROLS INC		3,450.64	28-APR-14	3,450.64	Reconciled
348173		24-APR-14	PACIFIC TECHNICAL EQUIPMENT AND ENGINEERING, INC.		41,447.97	01-MAY-14	41,447.97	Reconciled
348174		24-APR-14	PAULUS ENGINEERING INC		65,065.50	30-APR-14	65,065.50	Reconciled
348175		24-APR-14	PEARPOINT		36.80	29-APR-14	36.80	Reconciled
348176		24-APR-14	PINNACLE TOWERS LLC		615.79	29-APR-14	615.79	Reconciled
348177		24-APR-14	PIVOT INTERIORS INC		691.20	28-APR-14	691.20	Reconciled
348178		24-APR-14	PRAXAIR DISTRIBUTION INC		2,598.00	30-APR-14	2,598.00	Reconciled
348179		24-APR-14	PRE-PAID LEGAL SERVICES INC		1,480.62	29-APR-14	1,480.62	Reconciled
348180		24-APR-14	PSB INTEGRATED MARKETING		225.00	28-APR-14	225.00	Reconciled
348181		24-APR-14	PTI SAND & GRAVEL INC		823.64	30-APR-14	823.64	Reconciled

348182	24-APR-14	QUALITY ENVIRONMENTAL CONTAINERS	4,976.37	29-APR-14	4,976.37	Reconciled
348183	24-APR-14	R&B AUTOMATION INC	1,240.78	29-APR-14	1,240.78	Reconciled
348184	24-APR-14	RBF CONSULTING	1,498.00	30-APR-14	1,498.00	Reconciled
348185	24-APR-14	REAL GREEN INC.	25,266.25	01-MAY-14	25,266.25	Reconciled
348186	24-APR-14	RED WING SHOES	196.99	30-APR-14	196.99	Reconciled
348187	24-APR-14	RICHARD C SLADE & ASSOCIATES LLC	9,729.00			Negotiable
348188	24-APR-14	RINCON TRUCK CENTER INC.	219.57	28-APR-14	219.57	Reconciled

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 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								
348189		24-APR-14	RMC WATER AND ENVIRONMENT		6,136.00	01-MAY-14	6,136.00	Reconciled
348190		24-APR-14	SAFETY-KLEEN SYSTEMS, INC		196.78	30-APR-14	196.78	Reconciled
348191		24-APR-14	SANTA ANA BLUE PRINT		7,423.27			Negotiable
348192		24-APR-14	SANTIAGO AQUEDUCT COMMISSION		56,136.34	29-APR-14	56,136.34	Reconciled
348193		24-APR-14	SEAL ANALYTICAL INC		698.28	28-APR-14	698.28	Reconciled
348194		24-APR-14	SEPARATION PROCESSES INC		2,643.20	01-MAY-14	2,643.20	Reconciled
348195		24-APR-14	SHAMROCK SUPPLY CO INC		215.79	28-APR-14	215.79	Reconciled
348196		24-APR-14	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		434.94			Negotiable
348197		24-APR-14	SOUTH COAST ANSWERING SERVICE		593.07	29-APR-14	593.07	Reconciled
348198		24-APR-14	SOUTHERN CALIFORNIA EDISON COMPANY		319,377.21	25-APR-14	319,377.21	Reconciled
348199		24-APR-14	SPATIAL WAVE, INC.		12,670.00			Negotiable
348200		24-APR-14	STANDARD & POOR'S FINANCIAL SERVICES LLC		4,000.00	29-APR-14	4,000.00	Reconciled
348201		24-APR-14	STANTEC CONSULTING SERVICES INC.		14,375.00			Negotiable
348202		24-APR-14	STATE BOARD OF EQUALIZATION		562.44			Negotiable
348203		24-APR-14	STERIS CORPORATION		4,323.50	29-APR-14	4,323.50	Reconciled
348204		24-APR-14	THE GAS COMPANY		1,584.43			Negotiable
348205		24-APR-14	THE GITTELMAN GROUP		4,601.12	29-APR-14	4,601.12	Reconciled
348206		24-APR-14	THE HERTZ CORPORATION		9,422.67			Negotiable
348207		24-APR-14	THE IRVINE COMPANY LLC		1,651.75	28-APR-14	1,651.75	Reconciled
348208		24-APR-14	TIC-IPG-COMMON OFFICE		2,886.86	01-MAY-14	2,886.86	Reconciled
348209		24-APR-14	TIC-SPECTRUM		707.38	01-MAY-14	707.38	Reconciled
348210		24-APR-14	TROPICAL PLAZA NURSERY INC		6,049.00	30-APR-14	6,049.00	Reconciled
348211		24-APR-14	TRUCPARCO		1,843.60			Negotiable

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 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								
348212		24-APR-14	TURTLE ROCK POINTE HOMEOWNERS ASSOCIATION		758.00			Negotiable
348213		24-APR-14	UNITED SITE SERVICES OF CALIFORNIA INC		139.26	28-APR-14	139.26	Reconciled
348214		24-APR-14	URS CORPORATION		13,412.50			Negotiable
348215		24-APR-14	US BANK NAT'L ASSOC N.DAKOTA		12,082.19			Negotiable
348216		24-APR-14	VANCIU ELECTRIC INC		1,382.54			Negotiable
348217		24-APR-14	VERIZON CALIFORNIA INC		389.57	30-APR-14	389.57	Reconciled
348218		24-APR-14	VPSI INC		10,661.24			Negotiable
348219		24-APR-14	VULCAN MATERIALS COMPANY		1,341.81	28-APR-14	1,341.81	Reconciled
348220		24-APR-14	WATERLINE TECHNOLOGIES INC		2,840.00	28-APR-14	2,840.00	Reconciled

348221	24-APR-14	WAXIE'S ENTERPRISES, INC		1,734.52	30-APR-14	1,734.52	Reconciled
348222	24-APR-14	WEST COAST SAFETY SUPPLY INC		237.08	28-APR-14	237.08	Reconciled
348223	24-APR-14	WESTERN EXTERMINATOR COMPANY		630.00	30-APR-14	630.00	Reconciled
348224	24-APR-14	YORKE ENGINEERING LLC		3,456.70	30-APR-14	3,456.70	Reconciled
348225	24-APR-14	ZANETT COMMERCIAL SOLUTIONS, INC.		29,950.00	01-MAY-14	29,950.00	Reconciled
348226	29-APR-14	EATON CORP	GRAPEVINE	382.50			Negotiable
348227	30-APR-14	STATE BOARD OF EQUALIZATION	SACRAMENTO	1,367.00			Negotiable
348228	30-APR-14	JCI JONES CHEMICALS INC	CINCINNATI	2,752.75			Negotiable
348229	30-APR-14	JCI JONES CHEMICALS INC	CINCINNATI	3,029.38			Negotiable
348230	30-APR-14	JCI JONES CHEMICALS INC	CINCINNATI	3,264.18			Negotiable
348231	30-APR-14	JCI JONES CHEMICALS INC	CINCINNATI	2,205.00			Negotiable

Payment Document Subtotal: 6,237,694.01 5,424,485.94

Payment Document : IRWD Wire
 IRWD Ledger
 BANK: Bank of America N.A. Branch : Los Angeles
 Bank Account Currency: USD (US Dollar)
 Payment Type: All
 Payment Register For 01-APR-14 To 30-APR-14
 Account: Checking AP and PR
 Payment Currency: USD (US Dollar)
 Display Supplier Address: No
 Report Date: 02-MAY-2014 08:49
 Page: 30

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD Wire								
10371		08-APR-14	CALPERS	SACRAMENTO	367,246.70			Negotiable
10372		09-APR-14	INTERNAL REVENUE SERVICE	FRESNO	147,019.98			Negotiable
10373		09-APR-14	FRANCHISE TAX BOARD	SACRAMENTO	40,560.08			Negotiable
10374		09-APR-14	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	10,742.42			Negotiable
10375		09-APR-14	ORDONEZ, CYNTHIA MARIE	DESERT HOT SPR	500.17			Negotiable
10376		09-APR-14	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO	2,425.36			Negotiable
10377		09-APR-14	EMPLOYEE BENEFIT SPECIALIST, INC	PAY	10,975.73			Negotiable
10378		09-APR-14	GREAT WEST	DENVER	88,118.26			Negotiable
10379		09-APR-14	CALPERS	SACRAMENTO	82,994.08			Negotiable
10380		09-APR-14	SUMITOMO MITSUI BANKING CORPORATION	NEW YORK	1,421.59			Negotiable
10381		09-APR-14	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	754.77			Negotiable
10382		22-APR-14	YORK INSURANCE SERVICES GROUP INC - CA	PAY	3,359.50			Negotiable
10383		22-APR-14	YORK INSURANCE SERVICES GROUP INC - CA	PAY	5,394.37			Negotiable
10384		22-APR-14	YORK INSURANCE SERVICES GROUP INC - CA	PAY	2,080.09			Negotiable
10385		22-APR-14	YORK INSURANCE SERVICES GROUP INC - CA	PAY	11,034.72			Negotiable
10386		22-APR-14	INTERNAL REVENUE SERVICE	FRESNO	148,283.79			Negotiable
10387		22-APR-14	FRANCHISE TAX BOARD	SACRAMENTO	40,934.68			Negotiable
10388		22-APR-14	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	10,821.23			Negotiable
10389		22-APR-14	ORDONEZ, CYNTHIA MARIE	DESERT HOT SPR	500.17			Negotiable

IRWD Ledger
 BANK: Bank of America N.A. Branch : Los Angeles
 Bank Account Currency: USD (US Dollar)
 Payment Type: All
 Payment Register For 01-APR-14 To 30-APR-14
 Account: Checking AP and PR
 Payment Currency: USD (US Dollar)
 Display Supplier Address: No
 Report Date: 02-MAY-2014 08:49
 Page: 31

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

10390	22-APR-14	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO	2,376.90	Negotiable
10391	22-APR-14	EMPLOYEE BENEFIT SPECIALIST, INC	PAY	11,255.05	Negotiable
10392	22-APR-14	GREAT WEST	DENVER	89,427.41	Negotiable
10393	22-APR-14	U.S. BANK NATIONALST. ASSOCIATION	LOUIS	8,818.37	Negotiable
10394	22-APR-14	MUNICIPAL WATER DISTRICT OF ORANGEVALLEY COUNTY	FOUNTAIN	800,196.47	Negotiable
10395	28-APR-14	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	4,426.90	Negotiable
10396	28-APR-14	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	4,000,073.43	Negotiable
10397	28-APR-14	SUMITOMO MITSUI BANKING CORPORATION	NEW YORK	572.55	Negotiable
10398	29-APR-14	U.S. BANK NATIONALST. ASSOCIATION	LOUIS	1,706.83	Negotiable
10399	29-APR-14	BANK OF AMERICA MERRILL LYNCH	BOSTON	1,879.48	Negotiable
10400	29-APR-14	SUMITOMO MITSUI BANKING CORPORATION	NEW YORK	70,353.86	Negotiable
10401	29-APR-14	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	41,446.33	Negotiable
10402	29-APR-14	U.S. BANK NATIONALST. ASSOCIATION	LOUIS	62,684.66	Negotiable
10403	29-APR-14	BANK OF AMERICA MERRILL LYNCH	BOSTON	62,819.66	Negotiable
10404	29-APR-14	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	2,236,900.00	Negotiable
10405	30-APR-14	PCL CONSTRUCTION, INC.	ESR 141511.1	279,342.10	Negotiable
10406	29-APR-14	J.R. FILANC CONSTRUCTION COMPANY INC.	ESCONDIDO	683,479.87	Negotiable
10407	29-APR-14	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	2,542.62	Negotiable

IRWD Ledger Payment Register For 01-APR-14 To 30-APR-14 Report Date: 02-MAY-2014 08:49
 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 Wire								
10408		29-APR-14	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	125.00			Negotiable
10409		30-APR-14	FILANC-BALFOUR BEATTY JV	WEST COVINA	2,337,157.40			Negotiable
10410		29-APR-14	CALPERS	SACRAMENTO	96,618.59			Negotiable
10411		29-APR-14	YORK INSURANCE SERVICES GROUP INC - CA	PAY	6,698.74			Negotiable
10412		30-APR-14	PCL CONSTRUCTION, INC.	TEMPE	2,514,078.90			Negotiable
10413		30-APR-14	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	1,055.56			Negotiable
10414		30-APR-14	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	216.67			Negotiable
10415		30-APR-14	U.S. BANK NATIONALST. ASSOCIATION	LOUIS	5,794,250.00			Negotiable

Payment Document Subtotal: 20,085,671.04

Bank Account Subtotal : 26,323,365.05 5,424,485.94

Report Count : 849 Report Total: 26,323,365.05 5,424,485.94

Total Disbursements

*** End of Report ***

IRWD Ledger

Void Payment Register

Report Date: 02-MAY-2014 08:49

Include Zero Amount Payments: Yes
Display Payee Address: No

Period From: 01-APR-14

Page: 1
To: 30-APR-14
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						
343972	14-NOV-13	EDALATKHAH, MOSTAFA	IRVINE		12.11	16-APR-14
344006	14-NOV-13	JUNDANIAN, STEPHEN	ALISO VIEJO		33.65	16-APR-14
344101	14-NOV-13	VOSS, NEGIN	NAPERVILLE		24.50	16-APR-14
344623	12-DEC-13	ANCHUKIEWICZ, DAMIAN	IRVINE		36.42	16-APR-14
344635	12-DEC-13	BROWN, KARLY	NEWPORT BEACH		29.47	16-APR-14
344698	12-DEC-13	HOANG, NAM	GARDEN GROVE		34.36	16-APR-14
344718	12-DEC-13	LEE, CINDY - ACCT 160135121	CORONA DEL MAR		21.18	16-APR-14
344719	12-DEC-13	LEE, SOYOUNG	MURPHY		41.43	16-APR-14
344723	12-DEC-13	LLAMAS, MARICELA	ANAHEIM		26.07	16-APR-14
344746	12-DEC-13	NGUYEN, THU-QUYEN	IRVINE		14.59	16-APR-14
344897	19-DEC-13	GORZOLKA, PETER	TRABUCO CANYON		172.96	16-APR-14
345058	23-DEC-13	YANG, ALICIA	FOUNTAIN VALLE		7.58	16-APR-14

Payment Document Subtotal 454.32

Bank Account Subtotal 454.32

Report Count: 12

Report Total 454.32

Total
Voids

*** End of Report ***

26,323,365.05 Total Disbursements
<454.32> Total Voids
 26,322,910.73

Exhibit "E"

IRWD Gov Code 53065.5 Disclosure Report

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

01-APR-14 to 30-APR-14

NAME	CHECK NUMBER	CHECK DATE	AMOUNT	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Ashby, Rob	347693	9-Apr-14	148.00	Membership/Certification Renewal	CWEA Mechanical Tech Certificate and Membership Renewal Fee
Batten, David Benjamin	347429	2-Apr-14	148.00	Membership/Certification Renewal	CWEA Membership Renewal Fee
Bonkowski, Leslie	347829	16-Apr-14	237.96	Other(Misc)	Meeting supplies
Castaneda, Natalie	347831	16-Apr-14	199.99	Other(Misc)	Safety shoes reimbursement
Fike, Ethan	347687	9-Apr-14	148.00	Membership/Certification Renewal	CWEA Membership Renewal Fee
Jackson, Gina	347688	9-Apr-14	142.36	Other(Misc)	Team building lunch meeting with eight people
Jones, Morgan	347436	2-Apr-14	148.00	Membership/Certification Renewal	CWEA Membership Renewal Fee
Oldewage, Lars	347433	2-Apr-14	445.00	Registration Fees (Michele Drzymkowski proxy for Lars)	CA-NV AWWA 2014 Spring Conference Registration, Anaheim, CA - Mar. 25-27, 2014
Perez, David	348065	24-Apr-14	120.00	Membership/Certification Renewal	AWWA Water Distribution Operator Grade II
Pfister, Ken	348069	24-Apr-14	105.00	Membership/Certification Renewal	CA Dept of Public Health - Water Distribution Operator Grade V
Tran, Jason	347431	2-Apr-14	148.00	Membership/Certification Renewal	CWEA Membership Renewal Fee
Total Amount:			\$ 1,990.31		

May 27, 2014

Prepared by: C. Compton

Submitted by: P. Weghorst 

Approved by: Paul Cook 

CONSENT CALENDAR

2014 STATE LEGISLATIVE UPDATE

SUMMARY:

This report provides an update on the 2014 legislative session and IRWD priorities. As legislation develops, staff will provide updates and recommendations to the Water Resources Policy and Communications Committee and the Board, as appropriate. A copy of the 2014 State Legislative Matrix is attached as Exhibit "A".

BACKGROUND:

The Legislature returned from its Spring Recess on April 21, 2014. Since its return, policy committees have been busy hearing bills before the policy committee deadlines, and San Diego Assemblywoman Toni Atkins has been sworn in as Speaker of the Assembly.

This year, the last day for policy committees to hear fiscal bills was May 2, while May 9 was the policy committee deadline for non-fiscal bills. The last day for fiscal committees to hear and report to the floor any bills introduced in its house is May 23. The house of origin deadline is May 30.

State Budget:

March's Revenue Numbers:

On April 10, 2014, State Controller John Chiang released his monthly report on the State's finances. He announced that the State took in \$6.4 billion during the month of March. This amount was \$470.9 million, or 7.9 percent higher than budgeted.

"March income tax receipts exceeded the latest expectations by \$231.6 million, or 8.6 percent. Corporate tax receipts came in ahead of estimates by \$130.6 million, or 9.5 percent. Sales and use taxes were \$22.4 million above, or 1.4 percent, expectations in the Governor's FY 2014-15 proposed budget." Despite these revenues, the State ended the month with a General Fund cash deficit of \$16.7 billion which was covered by borrowing and is up from a year ago. At the end of March 2013, the cash deficit was \$15.2 billion.

April's Revenue Numbers:

On May 8, 2014, State Controller John Chiang released his monthly report on the State's finances. He announced that the State took in \$13.9 billion during the month of April. This amount was \$303 million, or 2.2 percent higher than budgeted. Total year-to-date revenues have exceeded expectations by \$2.17 billion, or 2.8 percent.

Controller Chiang stated that "A resurgent economy, combined with voter-approved tax increases, has boosted California's fortunes by the tune of an additional \$2 billion. This good

news will feed the temptation to spend, but that should be tempered by two absolute certainties: boom revenue cycles are always followed by times of exasperation; and years of accumulated debt and unfunded liabilities must be effectively managed if California hopes for long-term prosperity."Despite these revenues, the State ended the month with a General Fund cash deficit of \$10 billion which was covered by borrowing and is up from a year ago. At the end of April 2013, the cash deficit was \$5.8 billion.

Governor's May Revise:

On May 13, 2014, the Governor released his May revision to his proposed State budget. The May Revise proposes \$156.1 billion in total expenditures, \$150.5 billion in total revenues and designates \$1.6 billion for the Budget Stabilization Account/Rainy Day Fund. This compares to the \$154.9 billion in total expenditures, \$149.8 billion in revenues and \$1.59 billion proposed for placement into the Budget Stabilization Account/Rainy Day Fund included in the Governor's proposed budget issued in January.

The increases in revenue and spending included in the May Revise reflect the continued trend of increased revenues the State has experienced this fiscal year. Overall, the May Revise includes a net increase in forecasted revenues of \$2.4 billion across Fiscal Year 2012-2013 through Fiscal Year 2014-2015. This increase is associated with income tax withholdings on higher annual bonus payments and one-time shifts due to federal tax changes. Despite these higher revenues, the Administration cautioned that it believes these higher revenues are largely a one-time bump in revenues due to tax changes, and that it would not be supportive of using the increased revenues for new State services. The Administration further stated that the increased revenues had been consumed by an increase in higher State expenses experienced for health care, drought response and in a number of other programs.

The May Revise, similar to the Governor's proposed budget, focuses on paying down budgetary debts from past years, adding funds to the Budget Stabilization Fund/Rainy Day Fund, and addressing needs in education, health care, and CalWorks. The May Revise also included additional drought response and groundwater management proposals, which are discussed more fully below. Additionally, the May Revise included the following:

- **"Wall of Debt" Reductions:** As included in the Governor's proposed budget, the May Revise proposes to reduce State debt due to deferral and budgetary obligations by \$11 billion between Fiscal Year 2013-2014 and Fiscal Year 2014-2015. In addition to the \$11 billion reduction, the May Revise proposes to repay an additional \$100 million in local mandate reimbursement claims, which have been outstanding since 2004.
- **Reduced Levels of Debt Service:** In addition to paying down debt, the May Revise also includes a decrease of General Fund debt service expenditures by \$81.6 million, as compared to the proposed budget which forecasted General Fund debt service requirements at \$5.8 billion. The Governor has attributed the reduction in debt service to a smaller spring 2014 bond sale than projected; lower variable interest rates and fees; and savings related to bond refinancing this spring.

- Education Funding: The May revise included an additional \$10 billion in funding for K-12 education. The additional funds are needed to meet the Proposition 98 minimum guarantee and include \$4.5 billion to continue implementation of the Local Control Funding Formula.
- Medi-Cal Costs: Due to a 46 percent increase in Medi-Cal enrollment and due to enrollments in Covered California, the State is experiencing higher costs related to health care. The May Review includes an additional \$1.2 billion for Medi-Cal costs, which are expected to rise by \$2.4 billion over the next two years.
- Pension Liabilities: The May Revise also includes an additional \$430 million in pension costs related to assumption changes recently adopted by the California Public Employees' Retirement System. The May Revise also proposes a plan for funding the California State Teachers Retirement System, which has been substantially underfunded.

LAO's Review of the May Revise:

The Legislative Analyst's Office (LAO) is expected to release its review of the Governor's May Revise on May 16, 2014. Staff will review the document and provide the Committee with an oral update on the report.

Emergency Drought Response:

In addition to the drought funding that was included in SB 103, which was signed into law earlier this year, the May Revise includes an additional \$142 million to cover one-time drought-related expenses. The May Revise includes increases in funding for the following:

- Department of Forestry and Fire Protection: An increase of \$66 million to expand firefighter surge capacity, retain seasonal firefighters beyond the budgeted fire season, provide additional defensible space inspectors, and enhance air attack capabilities to suppress wildfires.
- Department of Fish and Wildlife: An increase of \$38.8 million to implement enhanced salmon monitoring, restore sensitive habitat, improve water infrastructure for wildlife refuges, expand the fisheries restoration grant program, and remove barriers for fish passage.
- Department of Water Resources: An increase of \$18.1 million to assess current surface and groundwater conditions, expedite water transfers, provide technical guidance to local water agencies, and provide additional public outreach through the Save Our Water campaign.
- Department of Social Services: An increase of \$5 million to provide food assistance for communities most impacted by the drought.

- Office of Emergency Services: An increase of \$4.4 million for the State Operations Center to continue to provide local communities with technical guidance and disaster recovery support related to the drought.
- Department of General Services: An increase of \$5.4 million to implement water efficiency and conservation measures at State-owned facilities.
- State Water Resources Control Board (SWRCB): An increase of \$4.3 million to continue enforcement of drought-related water rights and water curtailment actions.

Groundwater Management:

As expected, the May Revise proposes additional resources for groundwater management in California. The Governor's proposed budget included \$2.9 million for the Department of Water Resources to collect and update groundwater data and information, as well as \$1.9 million for the SWRCB to aid unsustainably managed groundwater basis. The May Revise augments these efforts by proposing an additional \$2.5 million in Fiscal Year 2014-15 and \$5 million annual for Fiscal Years 2015-2016 through Fiscal Year 2018-2019 to support local groundwater management efforts through the Sustainable Groundwater Management Program. The Sustainable Groundwater Management Program is aimed at providing local and regional groundwater management effort guidance; tools and resources to assist in the development of groundwater basin sustainability metrics; monitoring programs; and the development of groundwater plans.

While not specifically discussed in the May Review, the Administration remains interested in pursuing a budget trailer bill related to groundwater management in California. Discussions with key staff in the Administration have suggested that the budget trailer bill could propose a framework for changes in California's groundwater management. If a framework-type bill is pursued, it would likely be followed by a policy bill that would implement the specific changes envisioned in the framework. SB 1168 (Pavley, D-Calabasas) and AB 1739 (Dickinson, D-Sacramento) remain the most likely vehicles for the policy bill. SB 1168 is currently on the Senate Appropriations Suspense File and AB 1739 was heard in Assembly Appropriations on May 14, 2014. The Association of California Water Agencies (ACWA) is currently working with Assemblymember Dickinson on further amendments to AB 1739, which would bring it closer to ACWA's "Recommendations for Achieving Groundwater Sustainability."

Staff will provide an oral update to the Committee on any new developments.

Relocation of the Drinking Water Program:

The Administration remains committed to the transfer of the Drinking Water Program from the Department of Public Health to the SWRCB by July 1, 2014. The Governor's proposed budget included budget changes to reflect that transition, and proposed that legislation be adopted as part of the Fiscal Year 2014-15 budget effecting the transition. The May Revise did not change this proposal, and no new budget trailer bill language has been released. It is expected that new budget trailer bill language authorizing the transfer and making the necessary changes to State

law, as proposed in “Drinking Water Reorganization Transition Plan,” will be released shortly. Staff will provide the Committee with an oral update on any new developments.

Rainy Day Fund:

Earlier this month, the Governor and legislative leadership reached agreement on a constitutional amendment that would establish a Rainy Day Fund. The agreement calls for the Legislature to replace the current budget stabilization account constitutional amendment (ACA 4) currently on the November 2014 ballot with a new constitutional amendment that will instead propose the creation of the Rainy Day Fund. The Rainy Day Fund constitutional amendment would require that 1.5 percent of annual General Funds and capital gains revenue more than 8 percent of General Fund tax revenues be deposited into the Rainy Day Fund until the Rainy Day Fund reaches 10 percent of State revenues. The amendment would also require that:

- Half of the Rainy Day Fund deposits made over the next 15 years be used for supplemental payments to reduce the State’s debt and long-term liabilities;
- Limit Rainy Day Fund withdraws to half of the fund’s balance within the first year of a recession;
- Limit withdraws from the fund to responses to a disaster or if spending remains at or below the highest level of spending from the past three years;
- Require the State to provide a multiyear budget forecast; and
- Require that a Proposition 98 reserve be created.

The agreed-to Rainy Day Fund constitutional amendment has been placed into ACAx2 1 (Pérez), and is expected to be taken up quickly by both the Senate and Assembly. The proposed amendment will require a two-thirds vote of each house to replace ACA 4. If the voters approve the amendment in November, the Rainy Day Fund is expected to have a balance of \$1.872 billion by the end of Fiscal Years 2015-2016, and \$2.195 billion by the end of Fiscal Year 2017-2018.

Staff will provide the Committee with an oral update on any new developments.

IRWD 2014 Legislative Priorities:

2014 Water Bond:

The water bond continues to be an active topic of discussion in and around the State Capitol. As previously reported, there were 10 active water bond bills at the beginning of the session. A summary comparison of the 10 bond proposals is attached as Exhibit “B”.

Due to authors deciding not to move their proposals forward and SB 927 not being passed by the Senate Natural Resources Committee, there are now only six active water bond proposal. A

summary table of the value, location, and current status of the 10 previously reported on bill is below.

2013-2014 Water Bond Proposals

Bill Number	Bond Value Proposed	Location	Status
AB 1331 (Rendon)	\$8.0 billion	SEN. Rules	Passed by Sen. EQ
AB 1445 (Logue)	\$5.8 billion	ASM. WPW	Author has not moved the bill forward.
AB 2043 (Bigelow)	\$7.935 billion	ASM. Appropriations	Hearing date to be set.
AB 2554 (Rendon)	\$8.5 billion	ASM. Appropriations	Hearing date to be set.
AB 2686 (Perea)	Unspecified, but over \$10.25 billion	ASM. Appropriations	Hearing date to be set.
SB 848 (Wolk)	\$6.825 billion	SEN. Appropriations	Hearing date to be set.
SB 972 (Vidak)	\$9.217 billion	SEN. Natural Resources	Failed in Committee
SB 1080 (Fuller)	Spot bill	SEN. Rules	Author has not moved the bill forward.
SB 1250 (Hueso)	\$10.15 billion	SEN. Natural Resources	Hearing to be rescheduled.
SB 1370 (Galgiani)	\$6.26 billion	SEN. Natural Resources	Author has not moved the bill forward.

Over the last month, the water bond proposals continue to be discussed with all of the active proposals continuing to move through the policy and fiscal committee review processes. To date, only one bill has been killed in a policy committee although the Senate policy committees have required substantial amendments before moving proposals forward.

The amendments have led to a growing tension between the direction key policy committee members want to see the bills move compared to larger coalitions of legislators, who will be required to pass any bond reformulation. As a result of this tension, Senate leadership has finally begun to engage in a series of discussions on the bond. These discussions are why the Senate Natural Resources Committee hearing on SB 1250 (Hueso, D-San Diego) was canceled on May 13.

IRWD has continued to engage with members of the Assembly and State Senate, and with IRWD's association and industry partners, on the water bond to ensure that the adopted bond reformulation is beneficial for the state and the District. As part of this effort, staff has been working with a coalition of recycled water producers to advocate for sufficient funding for recycled water in the water bond.

Last week, IRWD agreed to sign onto a coalition letter by the California Association of Sanitation Agencies, WaterReuse California, the Western Recycled Water Coalition, and a number of recycled water suppliers, requesting that \$1 billion be restored within the proposed water bonds for competitive grants for recycled water. The letter states that when the State Legislature moved to downsize the proposed bond, the recycled water community supported the decision to scale back all elements of the bond including recycled water; however, now, as the discussions return to the recognition that greater levels of funding are needed and will be supported by the public, that the \$1 billion should be restored. The \$1 billion request for recycled water funding is consistent with "2014 Water Bond Funding & Amendment Requests" adopted by the Board. A copy of the letter will be provided to the Committee once it has been finalized.

Staff will provide the Committee an oral update on any new developments.

Other 2014 Legislation:

AB 2712 (Daly, D-Anaheim): Orange County Water District

AB 2712, authored by Assemblymember Tom Daly, was amended on April 23, 2014. The amendments, which were negotiated between the Orange County Business Council (OCBC) and the Orange County Water District (OCWD), would require OCWD to take specific actions before undertaking remediation or seeking cost recovery for remediation efforts. OCWD has agreed to provide notice of its actions to the Regional Water Quality Control Board and the Department of Toxic Substances Control; to meet and confer with any administering agency and responsible parties; and comply with the requirements of the National Contingency Plan. OCWD has also agreed to enter into a Memorandum of Understanding with the Department of Toxic Substances Control, the Santa Ana Regional Water Quality Control Board, and the Orange County Health Care Agency to establish a process for reviewing OCWD's proposed groundwater remediation projects. A copy of AB 2712, as amended, is attached as Exhibit "C".

AB 2712 has been supported by both OCBC and OCWD. The bill was heard by the Assembly Local Government Committee on May 8, and passed unanimously. It was heard in the Assembly Appropriations Committee on May 14. Staff will provide the Committee an oral update on the Assembly Appropriations Committee hearing and any new developments.

Other 2014 State Actions:

Governor Brown's Executive Order to Redouble State Drought Actions:

On April 25, 2014, Governor Brown issued an Executive Order redoubling the State's response to the drought and drought-related actions. The Executive Order, among other things, orders the Department of Water Resources and the SWRCB to expedite approvals of water transfers; directs the California Department of Fish and Wildlife to monitor drought-impacts on species and accelerate habitation restoration; and streamlines contracting rules for emergency response. The order also calls on Californians to limit outdoor watering and prohibits homeowner associations from fining residents who limit outdoor watering. A copy of the executive order is attached as Exhibit "D".

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Water Resources Policy and communications Committee on May 21, 2014.

RECOMMENDATION:

Receive and file.

LIST OF EXHIBITS:

Exhibit "A" – 2014 IRWD Legislative Matrix

Exhibit "B" – Summary of Water Bond Proposals

Exhibit "C" – Copy of AB 2712 (Daly)

Exhibit "D" – Copy of Governor Brown's Executive Order to Redouble State Drought Actions

EXHIBIT "A"
IRWD 2014 LEGISLATIVE MATRIX
Updated May 7, 2014

<u>AB 25</u> Campos (D)	Employment: Social Media		Applies existing law that prohibits a private employer from requiring or requesting an employee or applicant for employment to disclose a username or password for the purpose of accessing personal social media, to access personal social media in the presence of the employer, or to divulge any personal social media to public employers. Provides that these provisions apply to public employers generally, including charter cities and counties.	09/13/2013 - In SENATE. Held at desk.	
<u>AB 52</u> Gatto (D)	Native Americans: California Environmental Quality Act		Requires a lead agency to make best efforts to avoid, preserve, and protect specified Native American resources with a project that may have a significant effect on the environment, and to take specified mitigation measures if the project will have a substantial adverse change. Prohibits certain damage unless certain conditions are met. Requires consultation with tribes affiliated with the area prior to determining a negative declaration. Requires the revision of related guidelines.	09/10/2013 - In SENATE. Joint Rule 61(a)12 suspended.;09/10/2013 - In SENATE. Joint Rule 62(a) suspended.	
<u>AB 69</u> Perea (D)	Groundwater: Drinking Water: Nitrate at Risk Fund		Establishes the Nitrate at Risk Fund to be administered by the State Department of Public Health for loans, principal forgiveness loans, or grants to certain water systems operating in a high-nitrate at-risk area for specified purposes. Requires fertilizer sellers to pay a materials charge for deposit in the Fund.	08/12/2013 - From SENATE Committee on AGRICULTURE with author's amendments.;08/12/2013 - In SENATE. Read second time and amended. Re-referred to Committee on AGRICULTURE.	
<u>AB 79</u> Skinner (D)	Budget Act of 2013		Amends the Budget Act of 2013 by revising items of appropriation and making other changes for the purpose of addressing drought conditions in the State.	03/06/2014 - In SENATE. From third reading. To Inactive File.	
<u>AB 80</u> Skinner (D)	Drought Relief		Provides provisions regarding drought relief to include fines for violations of permits and licenses issued by the State Water Resources Control Board, the disbursement of disaster assistance, civil fines for the improper water diversion, emergency regulations regarding the diversion of water and the fines for a related infraction and for groundwater replenishment, rental space for those with economic hardship, the employment training tax, and the providing of funds for water management grants.	03/06/2014 - In SENATE. From third reading. To Inactive File.	
<u>AB 145</u> Perea (D)	State Water Resources Control Board: Drinking Water		Transfers to the State Water Resources Control Board the various duties and responsibilities imposed on the State Department of Public Health by the State Safe Drinking Water Act and the Safe Drinking Water State Revolving Fund Law of 1997. Requires the State Environmental Protection Agency to prepare a project initiation document for the transfer of the state drinking water program from the State Department of Public Health to a Division of Drinking Water Quality.	08/30/2013 - In SENATE Committee on APPROPRIATIONS: Held in committee.	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
AB 194 Campos (D)	Open Meetings: Actions For Violations		Amends the Ralph M. Brown Act that requires every agenda for a regular meeting or notice for a special meeting of a local legislative body to provide an opportunity for members of the public to address the legislative body on items being considered by the legislative body. Expands the authorization for a district attorney or interested party to seek a judicial determination that an action taken by a legislative body is null and void if the legislative body violates this requirement.	02/06/2014 - To SENATE Committee on GOVERNANCE AND FINANCE.	
AB 229 Perez J (D)	Infrastructure and Revitalization Financing Districts		Authorizes the creation by a city, county, city and county, and joint powers authority, of an infrastructure and revitalization financing district and the issuance of debt with voter approval. Authorizes the creation of a district and the issuance of debt. Authorizes a district to finance projects in redevelopment project areas and former redevelopment project areas and former military bases.	09/11/2013 - In ASSEMBLY. From Unfinished Business. To Inactive File.	
AB 243 Dickinson (D)	Local Government: Infrastructure Financing Districts		Authorizes the creation of an infrastructure and revitalization financing district and the issuance of debt with voter approval. Authorizes a district to finance projects in redevelopment project areas and former redevelopment project areas and former military bases if special conditions are met. Authorizes a district to fund various projects, including watershed land used for the collection and treatment of water for urban uses, flood management, open space, habitat restoration and development purposes.	09/11/2013 - In ASSEMBLY. To Inactive File.	
AB 371 Salas (D)	Sewage Sludge: Kern County		Requires the State Water Resources Board to require additional testing on the effects of sewage sludge or other biological solids to occur on properties in unincorporated areas of Kern County where the sludge or other biological solids are imported from another county within the State. Requires the Board to identify pathogens, endotoxins, and other hazards for testing based on the potential for contamination and potential to adversely affect human health. Requires a related report.	02/06/2014 - To SENATE Committee on ENVIRONMENTAL QUALITY.	
AB 380 Dickinson (D)	California Environmental Quality Act: Notice		Amends the California Environmental Quality Act. Requires that notices regarding environmental impact reports filed by lead agencies need to be filed with the Office of Planning and Research and the county clerk and posted by the clerk for public review. Provides notice requirements for projects that are determined to be exempted from the Act.	05/06/2014 - From SENATE Committee on ENVIRONMENTAL QUALITY with author's amendments.;05/06/2014 - In SENATE. Read second time and amended. Re-referred to Committee on ENVIRONMENTAL QUALITY.	
AB 436 Jones-Sawyer	Inverse Condemnation: Comparative Fault		Applies the doctrine of comparative fault to inverse condemnation actions. Requires a court or arbitrator to reduce the compensation paid to a plaintiff	07/02/2013 - In SENATE Committee on	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
(D)			in an inverse condemnation proceeding in direct proportion to his or her percentage of fault, if any, in the damaging of property that constitutes a taking. Provides the circumstances under which the plaintiff shall not recover his or her postoffer costs and shall pay the defendant's postoffer costs, including expert witness costs.	JUDICIARY: Not heard.	
AB 515 Dickinson (D)	State Environmental Quality Act: Writ of Mandate		Amends the State Environmental Quality Act that requires a court, if it finds that a public agency has violated the requirements of the Act, to issue an order, in the form of a peremptory writ of mandate. Requires the writ to specify the time by which the public agency is to make an initial return of the writ containing specified information. Requires the court to issue a determination indicating whether actions specified in the initial return and subsequent returns are adequate to comply with the writ.	03/17/2014 - From SENATE Committee on ENVIRONMENTAL QUALITY with author's amendments.;03/17/2014 - In SENATE. Read second time and amended. Re-referred to Committee on ENVIRONMENTAL QUALITY.	
AB 543 Campos (D)	California Environmental Quality Act: Translation	Oppose	Requires a lead agency to translate certain notices required by the California Environmental Quality Act and a summary of any negative declaration, mitigated negative declaration, or environmental impact report when a group of non-English-speaking people comprises at minimum percentage of the population within the lead agency's jurisdiction and the proposed project is to be located at or near an area where the group of non-English-speaking people comprises that same percentage of residents of the area.	06/13/2013 - Re-referred to SENATE Committee on ENVIRONMENTAL QUALITY.	
AB 616 Bocanegra (D)	Local Public Employee Organizations: Dispute: Panels		Relates to local public employee organizations. Requires an organization request for submit a dispute to a factfinding panel to be in writing. Provides if either party disputes that a genuine impasse has been reached, the issue of whether the impasse exists may be submitted to the Public Employees Relations Board for resolution before the dispute is submitted to a factfinding panel. Authorizes each party to select a person to serve as its member of the factfinding panels.	08/30/2013 - In SENATE Committee on APPROPRIATIONS: Held in committee.	
AB 687 Hernandez R (D)	Electricity		Requires the Public Utilities Commission, when authorizing additional direct transactions for retail nonresidential end-use customers, to provide the highest priority to acquire electric services from other providers to entities treating and remediating groundwater that is identified as contaminated on a site listed as a Superfund site in a disadvantaged or severely disadvantaged community or a public drinking water system of such communities. Requires the treatment and remediation using certain moneys.	02/04/2014 - From SENATE Committee on APPROPRIATIONS with author's amendments.;02/04/2014 - In SENATE. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
<u>AB 993</u> Linder (R)	Contractors: Arbitration		Amends the Contractors' State License Law. Provides a party that submits a dispute with contractor to arbitration waives any right to recover attorney's fees or to challenge the arbitrator's award attorney's fees in a related civil action. Relates to the setting of the time, date, and location for a arbitration related hearing. Requires good cause to exclude any person from a hearing. Revises requirements regarding the recording of the hearing. Authorizes the reopening of a hearing prior to any award.	06/17/2013 - From SENATE Committee on BUSINESS, PROFESSIONS & ECON. DEVELOPMENT: Do pass to Committee on JUDICIARY.	
<u>AB 1043</u> Chau (D)	Drinking Water, Quality, Flood, River Protection		Amends the Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006. Eliminates the requirement to develop and adopt regulations and requires a grantee of certain initiative bond act funds to take specific actions to recover the costs of cleanup and to utilize those funds for certain groundwater contamination cleanup projects.	06/25/2013 - In SENATE Committee on NATURAL RESOURCES AND WATER: Not heard.	
<u>AB 1080</u> Alejo (D)	Community Revitalization & Investment Authorities		Authorizes certain public entities of a community revitalization and investment area to form a community revitalization plan within a community revitalization and investment authority to carry out the Community Redevelopment Law in a specified manner. Requires the authority to adopt a community revitalization plan for a community revitalization and investment area and authorizes the authority to include in that plan a provision for the receipt of tax increment funds.	08/30/2013 - In SENATE Committee on APPROPRIATIONS: Held in committee.	
<u>AB 1249</u> Salas (D)	Water Management Plans: Nitrate Contamination		Requires an integrated regional water management plan to include an explanation of how the plan addressed nitrate contamination, or an explanation of why the plan does not address such concentration, if an area within the boundaries of the plan has been identified as a nitrate high-risk area by the State Water Resources Control Board, requires the Board when selecting projects for funding to establish a preference for project that implement plans that address nitrate impacts.	02/06/2014 - To SENATE Committee on ENVIRONMENTAL QUALITY.	
<u>AB 1331</u> Rendon (D)	Clean, Safe, and Reliable Drinking Water Act of 2014		Repeals the provisions that would create the Safe, Clean, and Reliable Drinking Water Supply Act of 2012. Enacts the Clean, Safe, and Reliable Drinking Water Act of 2014, which, if adopted by the voters, would authorize the issuance of bonds in a specified amount pursuant to the State General Obligation Bond Law to finance a clean and safe drinking water program.	04/21/2014 - From SENATE Committee on ENVIRONMENTAL QUALITY with author's amendments.;04/21/2014 - In SENATE. Read second time and amended. Re-referred to Committee on ENVIRONMENTAL QUALITY.	
<u>AB 1434</u> Yamada (D)	Low-Income Water Rate Assistance Program		Requires the Department of Community Services and Development to develop a plan for the funding and implementation of the Low-Income	04/24/2014 - In ASSEMBLY. Read	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
			Water Rate Assistance Program. Requires water service providers to provide water bill discounts and subsidies to eligible low-income residential water ratepayers who enroll in the program. Creates a related fund. Authorizes the Department to expend moneys deposited in the fund for purposes of the program and to submit a related report to the Legislature.	second time and amended. Re-referred to Committee on APPROPRIATIONS.	
AB 1445 Logue (R)	Water Infrastructure Act of 2014		Repeals the provisions that would create the Safe, Clean, and Reliable Drinking Water Supply Act of 2012. Enacts the State Water Infrastructure Act of 2014. Authorizes the issuance of bonds in a specified amount to finance a public benefit associated with water storage and water quality improvement projects.	02/14/2014 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.;02/14/2014 - From ASSEMBLY Committee on WATER, PARKS AND WILDLIFE with author's amendments.;02/14/2014 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on WATER, PARKS AND WILDLIFE.	
AB 1448 Mullin (D)	Local Government: Part-Time Elected Officials		Prohibits the legislative or governing body of a city, county, city and county, school board, special district, or any other entity of local government from granting lifetime healthcare benefits to an elected official who serves part time. Specifies that these provisions do not prevent the award of, or continuation of, health care benefits that are entirely paid for by the individual.	03/06/2014 - From ASSEMBLY Committee on LOCAL GOVERNMENT with author's amendments.;03/06/2014 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on LOCAL GOVERNMENT.	
AB 1506 Perea (D)	San Joaquin River Conservancy: Regulation Adoption		Makes a person who violates any of the posted regulations adopted by the San Joaquin River Conservancy governing lands owned or managed by the conservancy guilty of an infraction punishable by a maximum fine.	05/05/2014 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.	
AB 1522 Gonzalez (D)	Employment: Paid Sick Days		Enacts the Healthy Workplaces, Healthy Families Act of 2014, provides that any employee works for a specified number of days in a calendar year is entitled to paid sick days. Provides the formula for the accrual of such sick	04/30/2014 - In ASSEMBLY Committee on	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
			days. Authorizes an employer to limit an employee's use of paid sick days. Provides the authorized reasons to be used for taking such sick days. Prohibits discrimination or retaliation against an employee for requesting such sick days. Requires the posting of related notices.	APPROPRIATIONS: To Suspense File.	
AB 1527 Perea (D)	Public Water Systems: Drinking Water		Requires the Strategic Growth Council to manage and award financial assistance to a city, county, local area formation commission, special district, nonprofit organization or entity for the preparation, planning, and implementation of a public water system consolidation, merger, or extension of service project for the purposes of promoting water conservation. Requires the assistance to be provided from available moneys pursuant to a specified bond act.	04/29/2014 - From ASSEMBLY Committee on ENVIRONMENTAL SAFETY AND TOXIC MATERIALS: Do pass to Committee on APPROPRIATIONS.	
AB 1600 Gomez (D)	Service Contracts: Outsourcing Alternatives		Establishes, as a condition for a State agency to use personal services contracts, a requirement that the contractor's wages be the higher of the industry's level or the prevailing wage, if applicable.	04/23/2014 - In ASSEMBLY Committee on PUBLIC EMPLOYEES, RETIREMENT AND SOCIAL SECURITY: Not heard.	
AB 1615 Gatto (D)	Claims Against the State: Payment		States the intent of the Legislature to appropriate funds for the payment of claims against the state.	03/13/2014 - To ASSEMBLY Committee on APPROPRIATIONS.	
AB 1632 Olsen (R)	Water Rights: Appropriation		Makes a technical, nonsubstantive change in provisions regarding the State Water Resources Control Board allowing permits and licenses appropriations for beneficial purposes of unappropriated water under terms and conditions as in its judgment will best develop, conserve, and utilize in the public interest the water sought to be appropriated.	02/10/2014 - INTRODUCED.	
AB 1636 Brown (D)	Water Conservation		Prohibits a city or county, during a drought emergency declared by the Governor, from enforcing a law or ordinance requiring a resident to water his or her lawn. Provides that a requirement imposed by a governmental entity or a public utility to limit, restrict, or conserve water during a drought emergency declared by the Governor does not constitute a diminution of rent or value of a premise or property.	04/24/2014 - Re-referred to ASSEMBLY Committee on LOCAL GOVERNMENT.	
AB 1639 Grove (R)	Global Warming Solutions Act of 2006:Greenhouse Gas		Relates to the California Global Warming Solutions Act of 2006 and the Greenhouse Gas Reduction Fund. Amends existing law that creates the High-Speed Rail Authority. Provides that cap-and-trade revenues shall not be appropriated from the fund for purposes of the high-speed rail system, and would make legislative findings and declarations in that regard.	04/28/2014 - In ASSEMBLY. Joint Rule 62(a) suspended.;04/28/2014 - In ASSEMBLY Committee on NATURAL	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
AB 1671 Frazier (D)	Sacramento-San Joaquin Delta: Water Conveyance System	Oppose	Prohibits the Department of Water Resources from constructing water facilities as part of a specified water conveyance system unless specifically authorized by the Legislature.	RESOURCES: Failed passage. 04/08/2014 - In ASSEMBLY Committee on WATER, PARKS AND WILDLIFE: Not heard.	
AB 1705 Williams (D)	Public Contracts: Payment		Amends existing law that authorizes the retention proceeds withheld from any payment by an awarding entity from the original contractor, by the original contractor from any subcontractor, and by a subcontractor from any subcontractor, to exceed a specified percentage on projects that are substantially complex. Requires that the bid documents include details explaining the basis for the finding in addition to the actual retention amount.	05/05/2014 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.	
AB 1707 Wilk (R)	Water Quality: Scientific Peer Review		Amends existing law that requires the State Water Resources Control Board and the regional water quality control boards to prescribe waste discharge requirements in accordance with the federal national pollutant discharge elimination system permit program. Relates to an external scientific peer review. Requires the Board to post on its Internet Web site a copy of the external scientific peer review for regulations of the Board.	05/01/2014 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.	
AB 1728 Garcia (D)	Political Reform Act of 1974		Relates to the Political Reform Act of 1974. Revises the definition of agency to include a local government agency formed pursuant to provision of the Water Code. Revises the definition of license, permit, or other entitlement for use with respect to proceedings before a local government agency formed pursuant to the Water Code to apply to all contracts that are not competitively bid.	04/23/2014 - From ASSEMBLY Committee on LOCAL GOVERNMENT: Do pass to Committee on APPROPRIATIONS.	
AB 1729 Logue (R)	Local Government: Agricultural Land: Payments		Appropriates a specified amount of money from the General Fund to make subvention payments to counties to reimburse the counties for property tax revenues not received as a result of contracts between the counties and owners of agricultural land in which the owners agree, under the Williamson Act, to continue using such property as agricultural for purposes of property taxation.	03/20/2014 - To ASSEMBLY Committee on APPROPRIATIONS.;03/20/2014 - From ASSEMBLY Committee on APPROPRIATIONS with author's amendments.;03/20/2014 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
<u>AB 1731</u> Perea (D)	Integrated Regional Water Management Plans: Funding		Requires, in each integrated regional water management region, that not less than a specified percentage of any funding for integrated regional water management planning purposes be used to facilitate and support the participation of disadvantaged communities in integrated regional water management planning and for projects that address critical water supply or water quality needs for disadvantaged communities.	04/10/2014 - To SENATE Committees on NATURAL RESOURCES AND WATER and ENVIRONMENTAL QUALITY.	
<u>AB 1739</u> Dickinson (D)	Groundwater Basin Management: Sustainability		Amends existing law concerning groundwater management plans adopted by local agencies. Requires a sustainable groundwater management plan to be adopted for certain basins by any groundwater management agency. Prohibits the extraction of groundwater within a groundwater basin for new commercial, multifamily residential, or industrial development, except for the use of a single-family domestic well, unless the groundwater basin has a sustainable groundwater management plan.	04/29/2014 - From ASSEMBLY Committee on WATER, PARKS AND WILDLIFE: Do pass to Committee on APPROPRIATIONS.	
<u>AB 1741</u> Frazier (D)	Public Works: Prevailing Wage Rates: Assessments		Relates to the issuance by the Labor Commissioner of a civil wage and penalty assessment for violating laws regulating public works contracts, including the payment of prevailing wages. Specifies that a contractor, subcontractor, or surety may deposit the full amount of the assessment or notice with the Department of Industrial Relations in the form of cash or a bond issued by a surety company admitted to do business in the State in a form acceptable to the Department.	04/30/2014 - In ASSEMBLY Committee on APPROPRIATIONS: To Suspense File.	
<u>AB 1782</u> Chesbro (D)	Wires: Unlawful Removal		Makes it a crime for any person to unlawfully and maliciously disconnect or cut a line of telegraph, telephone, or cable television, or any line used to conduct electricity, or any part thereof, or appurtenance or apparatus connected therewith. Increases the related criminal fine.	05/05/2014 - In ASSEMBLY. Read second time. To Consent Calendar.	
<u>AB 1799</u> Gordon (D)	Land Use: Mitigation Lands	Support	Specifies, where a governmental entity or specified district is the transferee of property, that an endowment or other financial mechanism is not required if the entity or district provides evidence to the local or State agency that it possesses an investment-grade credit rating by a nationally recognized rating organization or other equivalent evidence of financial responsibility and enters into a contractual agreement enforcing mitigation requirements. Requires related reporting.	05/05/2014 - In ASSEMBLY. Read second time. To third reading.;05/05/2014 - Re-referred to ASSEMBLY Committee on APPROPRIATIONS.	
<u>AB 1849</u> Logue (R)	California Environmental Quality Act: Exemptions		Relates to the California Environmental Quality Act. Exempts from the requirements of CEQA, the maintenance, repair, or replacement of an existing levee.	02/27/2014 - To ASSEMBLY Committee on NATURAL RESOURCES.	
<u>AB 1874</u> Gonzalez (D)	Integrated Regional Water Management Plans: Funding		Requires the Department of Water Resources to develop a streamlined application process for certain regional water management groups. Requires, in order to get water management grant funds through the process, the group	04/29/2014 - From ASSEMBLY Committee on WATER,	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
			must file a streamlined application including specified information. Requires awarding funds according to a statutory formula and covers regions. Requires the group to provide a list of projects to be funded and the Department to award the funding within a specified time period.	PARKS AND WILDLIFE: Do pass to Committee on APPROPRIATIONS.	
AB 1905 Alejo (D)	Water Rights: Appropriation: Livestock Stockpond Use		Provides that impoundment for incidental fire protection purposes is included within livestock stockpond use.	05/01/2014 - In ASSEMBLY. Read second time. To Consent Calendar.	
AB 1933 Levine (D)	Local Government: Investments		Authorizes the legislative body of a local agency to also invest in United States dollar denominated senior unsecured unsubordinated obligations issued or unconditionally guaranteed by certain banks. Requires these investments to be rated AA or better and to not exceed 30% of the agency's moneys that may be invested.	05/01/2014 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.	
AB 1961 Eggman (D)	Land Use: Planning: Sustainable Farmland Strategy		Requires each county to develop a sustainable farmland strategy. Requires the sustainable farmland strategy to include, among other things, a map and inventory of all agriculturally zoned land within the county, a description of the goals, strategies, and related policies and ordinances, to retain agriculturally zoned land where practical and mitigate the lose of such land to other uses or zones.	04/30/2014 - In ASSEMBLY Committee on APPROPRIATIONS: To Suspense File.	
AB 1970 Gordon (D)	Global Warming Solutions Act: Community Investment		Creates the Community Investment and Innovation Program and requires moneys to be available from the Greenhouse Gas Reduction Fund for purposes of awarding grants and other financial assistance to eligible applicants who submit plans to develop and implement integrated community-level greenhouse gas emissions reductions in their region. Requires the Strategic Growth Council to administer the program.	04/23/2014 - From ASSEMBLY Committee on LOCAL GOVERNMENT: Do pass to Committee on APPROPRIATIONS.	
AB 1983 Gray (D)	Water Meters: Multiunit Structures		Authorizes the owner or operator of a building containing residential units to install equipment to determine or use an economic allocation methodology to approximate the quantity of water that is provided to the tenants and used in the common areas of that building and to charge tenants separately for water and wastewater service based on usage as determined through the use of that equipment or allocation methodology if certain requirements are met.	03/03/2014 - To ASSEMBLY Committees on HOUSING AND COMMUNITY DEVELOPMENT and WATER, PARKS AND WILDLIFE.	
AB 2040 Garcia (D)	Public Official Compensation		Requires a local agency to report to the controller the annual compensation of its public officials, including, but not limited to, separately listing the name of each public official and his or her monthly salary.	04/30/2014 - In ASSEMBLY Committee on APPROPRIATIONS: To Suspense File.	
AB 2043 Bigelow (R)	Safe Clean and Reliable Drinking Water Supply Act		Enacts the Safe, Clean, and Reliable Water Supply Act of 2014, which, if adopted by votes, would authorize the issuance of bonds to finance a safe drinking water and water supply reliability program.	04/29/2014 - From ASSEMBLY Committee on WATER,	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
				PARKS AND WILDLIFE: Do pass to Committee on APPROPRIATIONS.	
AB 2045 Rendon (D)	Energy Improvements and Financing		Enacts the Non-Residential Real Property Energy Retrofit Financing Act of 2014. Provides financial assistance through the issuance of revenue bonds, to owners of eligible real properties. Requires that the bonds be secured by the recording of an energy remittance repayment agreement lien. Requires the Energy Resources Conservation and Development Commission to collect installment payments from owners of eligible real properties whose applications it has approved.	04/28/2014 - From ASSEMBLY Committee on UTILITIES AND COMMERCE: Do pass to Committee on APPROPRIATIONS.;04/28/2014 - In ASSEMBLY. Joint Rule 62(a) suspended.	
AB 2049 Dahle (R)	Drinking Water: Point-of-Entry: Point-of-Use Treatment		Limits the use of point-of-entry and point-of-use treatment to water systems with less than 500 service connections.	04/24/2014 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.	
AB 2067 Weber (D)	Urban Water Management Plans		Requires an urban retail water supplier and an urban wholesale water supplier to provide narratives describing the supplier's water demand management measures. Requires the narrative to address the nature and extent of each water demand management measure implemented to describe the water demand management measures that the supplier plans to implement.	04/24/2014 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.	
AB 2071 Levine (D)	Recycled Water: Pasture Animals		Requires the State Department of Public Health to determine if the use of disinfected tertiary treated recycled water for the purpose of providing water to pasture animals would be safe for public and animal health. Requires the establishment of statewide recycling criteria for the use of recycled water for such purposes. Prohibits the use of such water in the water supply for dairy animals that are currently producing dairy products for human consumption.	04/29/2014 - From ASSEMBLY Committee on ENVIRONMENTAL SAFETY AND TOXIC MATERIALS: Do pass to Committee on APPROPRIATIONS.	
AB 2097 Morrell (R)	Homeowners Exemption and Renters Credit		Increases the homeowners' property tax exemption. Increases the personal income tax credit for a qualified renter.	03/03/2014 - To ASSEMBLY Committee on REVENUE AND TAXATION.	
AB 2100 Campos (D)	Common Interest Developments: Yard Maintenance: Drought		Prohibits a common interest development association from imposing a fine or assessment against a member of a separate interest for reducing or eliminating watering of vegetation or lawns during any period for which the	05/01/2014 - In ASSEMBLY. Read third time. Passed	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
			Governor has declared a state of emergency, or a local government has declared a local emergency, due to drought.	ASSEMBLY. *****To SENATE.	
AB 2104 Gonzalez (D)	Common Interest Developments:Water Efficient Landscapes	Support	Relates to the Davis-Stirling Common Interest Development Act. Provides that a provision of the governing documents or of the architectural or landscaping guidelines or polices shall be void and unenforceable if it prohibits, or includes conditions that have the effect of prohibiting, low water-using plants as a group or as a replacement of existing turf, or if the provisions have the effect of prohibiting or restricting compliance with local water conservation measures.	04/22/2014 - To SENATE Committee on TRANSPORTATION AND HOUSING.	
AB 2114 Pan (D)	Taxation: Qualified Heavy Equipment		Imposes a tax on every qualified renter for the privilege of renting qualified heavy equipment. Requires a renter to collect the tax from the qualified rentee at the time of rental. Provides that this tax shall be in lieu of any personal property tax on qualified heavy equipment. Requires the county auditor to increase the total amount of ad valorem property tax revenue and to decrease the amount of ad valorem property tax required to be allocated to the county Educational Revenue Augmentation Fund.	04/30/2014 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.	
AB 2126 Bonta (D)	Meyers Miliias Brown Act Mediation		Amends the Meyers-Miliias-Brown Act which requires the governing body of a local public agency to meet and confer in good faith regarding wages, hours, and other terms and conditions of employment with representatives of a recognized employee organization. Permits either party to request mediation. Requires the parties to agree upon a mediator. Provides the labor-management differences that may be submitted to a fact finding panel. Limits the criteria that the factfinders would be required to consider.	04/30/2014 - In ASSEMBLY Committee on APPROPRIATIONS: To Suspense File.	
AB 2189 Garcia (D)	Water Replenishment Districts: Replenishment Assessment		Requires a water replenishment district board to make specified findings and determinations before holding a public meeting and to identify water-producing facilities within the district that would be subject to a proposed replenishment assessment and give written notice by mail to owners of those facilities. Authorizes the facility owner to submit a written protection in opposition of the assessment. Provides the condition that would prohibit the imposition of the assessment.	04/30/2014 - From ASSEMBLY Committee on LOCAL GOVERNMENT: Do pass to Committee on APPROPRIATIONS.	
AB 2211 Ting (D)	Counties: Database: Information Regarding Property Tax		Requires each county to make available to taxpayers on its Internet Web site a graph visualization of how general ad valorem property tax revenues are allocated countywide. Requires the Internet Web site to provide taxpayers with certain information about general ad valorem property tax revenues and the types of programs and services funded with general ad valorem property tax revenues, and to include links to other jurisdiction's Internet Web sites where more information is detailed.	04/28/2014 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.	
AB 2231 Gordon (D)	State Controller: Property Tax Postponement		Relates to claims for postponement under the Senior Citizens and Disabled Citizens Property Tax Postponement Law. Makes inoperative a prohibition against a person filing a claim for postponement. Excludes mobilehomes and houseboats from certain provisions. Creates a specified fund. Makes changes	04/28/2014 - From ASSEMBLY Committee on REVENUE AND	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
			concerning eligibility, repayment of postponed taxes, delinquent penalties and interest, electronic funds transfer requirements, the sale of tax-defaulted property, public meetings, and other matters.	TAXATION: Do pass to Committee on APPROPRIATIONS.	
<u>AB 2257</u> Cooley (D)	Tax-Defaulted Property: Excess Proceeds from Sale		Eliminates the requirement that any excess proceeds from the sale of tax-defaulted property not claimed be distributed among taxing agencies. Authorizes any excess proceeds to be transferred to the county general fund at the expiration of a specified time period. Relates to the distribution and claim process of any excess proceeds from the sale.	05/05/2014 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.	
<u>AB 2259</u> Ridley-Thomas S (D)	Water Replenishment: Assessments		Requires that a judicial action or proceeding to attack, review, set aside, void, or annul a resolution or motion levying a water replenishment assessment by a water replenishment district pursuant to certain provisions to be connected within a certain number of days of the adoption of the resolution or motion. Requires that an action by a local agency or interested person regarding the replenishment assessment be brought pursuant to specified provisions regarding civil proceedings.	04/24/2014 - In ASSEMBLY. Read third time. Passed ASSEMBLY. *****To SENATE.	
<u>AB 2282</u> Gatto (D)	Building Standards: Recycled Water Infrastructure		Requires the Department of Housing and Community Development to conduct research to assist in the development of and to propose adoption, amendment or repeal by the State Building Standards Commission of mandatory building standards for the installation of recycled water infrastructure for newly constructed single-family and multifamily residential buildings. Limits the mandate to install recycled water piping to certain areas within a local jurisdiction. Regards green building standards.	04/29/2014 - From ASSEMBLY Committee on BUSINESS, PROFESSIONS & CONSUMER PROTECTION: Do pass to Committee on APPROPRIATIONS.	
<u>AB 2312</u> Nestande (R)	Metal Theft	Support	Relates to theft of wire, cable, copper, lead, solder, mercury, iron, or brass. Requires a junk dealer or recycler to request to receive theft alert notifications regarding the theft of commodity metals in the junk dealer's or recycler's geographic region from the theft alert system maintained by the Institute of Scrap Recycling Industries, Inc. Requires a junk dealer or recycler who is an applicant for a new weighmaster license or renewal to also include a statement on theft alert notifications.	05/01/2014 - In ASSEMBLY. Read second time. To Consent Calendar.	
<u>AB 2353</u> Waldron (R)	Environmental Quality: Water Storage Facilities		Exempts a project to expand the storage capacity of an existing surface water storage facility, or to replace an existing surface water storage facility, that is owned and operated by a public entity if that public entity adopts, by resolution, findings and declarations that the project meets specified criteria from the requirements of the California Environmental Quality Act.	04/28/2014 - In ASSEMBLY Committee on NATURAL RESOURCES: Failed passage.	
<u>AB 2403</u> Rendon (D)	Local Government: Assessments, fees, and charges		Provides that provisions of the California Constitution generally require that assessments, fees, and charges be submitted to property owners for approval or rejection after the provisions of written notice and the holding of a public	04/10/2014 - From ASSEMBLY Committee on LOCAL	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
			hearing. Modifies the definition of water to specifically include recycled water and reclaimed stormwater intended for the provision of water service.	GOVERNMENT with author's amendments.;04/10/2014 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on LOCAL GOVERNMENT.	
<u>AB 2417</u> Nazarian (D)	California Environmental Quality Act: Recycled Water		Amends the California Environmental Quality Act, which exempt specified pipeline projects from certain requirements. Exempts from the Act a project for the construction and installation of a new pipeline or the maintenance, repair, restoration, reconditioning, relocation, replacement, removal, or demolition of an existing pipeline, not exceeding a specified length, for the distribution of recycled water within a public street, highway, or right-of-way. Requires the filing of a notice of exemption.	04/28/2014 - From ASSEMBLY Committee on NATURAL RESOURCES: Do pass as amended to Committee on APPROPRIATIONS.	
<u>AB 2420</u> Nazarian (D)	Well Stimulation Treatments: Local Prohibition		Authorizes a city or county to adopt and enforce a local ordinance prohibiting well stimulation treatments.	04/30/2014 - In ASSEMBLY Committee on LOCAL GOVERNMENT: Failed passage.;04/30/2014 - In ASSEMBLY Committee on LOCAL GOVERNMENT: Reconsideration granted.	
<u>AB 2434</u> Gomez (D)	Income Taxes: Exclusion	Support	Provides an exclusion from gross income any amount received as a rebate, voucher, or other financial incentive issued by a local water or energy agency or supplier for expenses incurred to participate in a water or energy conservation program.	05/05/2014 - In ASSEMBLY Committee on REVENUE AND TAXATION: To Suspense File.	
<u>AB 2442</u> Gordon (D)	Porter Cologne Water Quality Control Act		Prohibits the State Water Resources Control Board, a regional board, and any authorized person, from being civilly liable for any act or omission of the state board, regional board, or any authorized person in connection with any investigation, cleanup, abatement, or other remedial work, unless the act or omission was performed in a grossly negligent manner.	05/05/2014 - In ASSEMBLY. Read second time. To third reading.	
<u>AB 2443</u> Rendon (D)	Duplication of Service: Mutual Water Companies		Makes inapplicable the provision that a mutual water company is a private utility entitled to just compensation for a taking in a territory it services at the time of the taking when a political subdivision constructs facilities to	04/21/2014 - In ASSEMBLY. Read second time. To third	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
			provide or extend recycled water service to the territory of the mutual water company.	reading.	
<u>AB 2446</u> Waldron (R)	San Luis Rey Municipal Water District		Prohibits a standby assessment or availability charge levied for the San Luis Rey Municipal Water District from exceeding a specified amount per acre for land on which the charge is levied or a specified amount per year for a parcel less than a specified size. Requires the proceeds from the assessment or charge to be used for the purposes of management of local water supply and its quality.	04/28/2014 - From ASSEMBLY Committee on LOCAL GOVERNMENT with author's amendments.;04/28/2014 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on LOCAL GOVERNMENT.	
<u>AB 2463</u> Dickinson (D)	Water: Plans		Requires the Department of Water Resources to partner with the Regional Water Authority, water suppliers in El Dorado, Placer, Sacramento, and Placer counties, and other interested agencies to develop a plan for investing in water supplies and other facilities in order to contribute to the reliability of water supplies for the Sacramento region's communities and environmental resources while also generating statewide benefits.	04/29/2014 - From ASSEMBLY Committee on WATER, PARKS AND WILDLIFE: Do pass to Committee on APPROPRIATIONS.	
<u>AB 2471</u> Frazier (D)	Public Contracts: Change Orders		Requires a public entity, when authorized to order changes or additions in the work in a public works contract awarded to the lowest bidder, to issue a change order promptly. Requires if this requirement is not met, the public entity to be liable to the original contractor for the work that has already been performed. Authorizes the submission of a change order for extra work performed by a subcontractor. Authorizes the subcontractor to request that submission. Requires subcontractor notification.	04/30/2014 - From ASSEMBLY Committee on ACCOUNTABILITY AND ADMINISTRATIVE REVIEW: Do pass to Committee on APPROPRIATIONS.	
<u>AB 2492</u> Jones-Sawyer (D)	Local Agencies: Meetings: Real Property Transaction		Authorizes the legislative body of a local agency to grant authority to the negotiator regarding the price and terms of the purchase, sale, exchange, or lease.	03/13/2014 - To ASSEMBLY Committee on LOCAL GOVERNMENT.	
<u>AB 2507</u> Bocanegra (D)	Public Records Act: Exemptions		Provides that outside attorney billing records, when they are prepared in connection with a pending civil action in which a public agency is the defendant, are exempt from the State Public Records Act disclosure provisions during the pendency of the litigation.	04/22/2014 - In ASSEMBLY Committee on JUDICIARY: Not heard.	
<u>AB 2516</u> Gordon (D)	Sea Level Rise Planning: Database		Requires the Natural Resources Agency to post on its Internet Web site a Planning for Sea Level Rise Database describing steps being taken throughout the state to prepare for, and adapt to, sea level rise. Includes	04/28/2014 - From ASSEMBLY Committee on	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
			public and private entities. Requires the Agency to organize the database by geographic area and to provide an entry for each city, county, and city and county within the coastal zone and San Francisco Bay area.	NATURAL RESOURCES: Do pass as amended to Committee on APPROPRIATIONS.	
AB 2554 Rendon (D)	Clean, Safe, and Reliable Drinking Water Act of 2014		Repeals the Safe, Clean, and Reliable Drinking Water Act of 2012 that would authorize the issuance of bonds to finance a safe drinking water and water supply reliability program via a bond act if passed by the voters at a statewide general election. Enacts the Clean, Safe, and Reliable Drinking Water Act of 2014 to authorize bonds in a specified amount to finance a clean, safe, and reliable drinking water program if passed by the voters at a statewide general election.	04/29/2014 - From ASSEMBLY Committee on WATER, PARKS AND WILDLIFE: Do pass to Committee on APPROPRIATIONS.	
AB 2619 Gaines B (R)	Dams: Fish: Critically Dry Year		Amends existing law which requires a dam owner to allow sufficient water to pass through a fishway or over, around, or through the dam and which authorizes the Department of Fish and Game to grant permission to the dam owner to allow sufficient water to pass through a culvert, waste gate, or over or around the dam, to keep in good condition any fish that may be planted or exist below the dam. Prohibits such provisions from applying during a critically dry year.	03/28/2014 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.;03/28/2014 - From ASSEMBLY Committee on WATER, PARKS AND WILDLIFE with author's amendments.;03/28/2014 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on WATER, PARKS AND WILDLIFE.	
AB 2636 Gatto (D)	CalConserve Water Use Efficiency Revolving Fund		Transfers to the CalConserve Water Use Efficiency Revolving Fund from the Costa-Machado Water Act of 2000 specified bond proceeds issued and available for agricultural water projects. Requires the Department of Water Resources to use these moneys for loans and grants to local agencies to acquire and construct agricultural water conservation projects consistent with the bond act.	04/09/2014 - In ASSEMBLY Committee on APPROPRIATIONS: To Suspend File.	
AB 2676 Rendon (D)	Controller Reports		Changes the definition of a special district included in the reporting requirements of the Controller to include a public entity, agency, or board provided for by a joint powers agreement that is separate from the parties to the agreement and is responsible for the administration of the agreement. Relates to auditing local redevelopment agencies. Relates to forfeiture requirements local agency officers that fail or refuse to file a financial report	04/30/2014 - In ASSEMBLY Committee on APPROPRIATIONS: To Suspend File.	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
			to the Controller.		
AB 2680 Nazarian (D)	Water Quality		Makes technical, nonsubstantive changes to the legislative findings and declarations in The Porter-Cologne Water Quality Control Act.	02/21/2014 - INTRODUCED.	
AB 2686 Perea (D)	Clean, Safe, and Reliable Water Supply Act of 2014		Repeals the Safe, Clean, and Reliable Drinking Water Supply Act of 2012. Enacts the Clean, Safe, and Reliable Water Supply Act of 2014, which, if adopted by the voters, would authorize the issuance of bonds in an unspecified amount, to finance a clean, safe, and reliable water supply program. Provides for the submission of the bond act to the voters at a statewide general election.	05/01/2014 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.	
AB 2701 Gonzalez (D)	Groundwater Basins: Investigation and Report		Makes a technical, nonsubstantive change to existing law that requires the Department of Water Resources, in conjunction with other public agencies, to conduct an investigation of the state's groundwater basins and to report its findings to the Governor and the Legislature.	02/21/2014 - INTRODUCED.	
AB 2712 Daly (D)	Hazardous Materials: Orange County Water District		Requires the Orange County Water District in order to obtain the recovery of the costs of cleaning up or containing contamination, abating the effects of contamination or pollution, or taking other emergency, removal, or remedial action to provide notice of the action to the regional water quality control board and the Department of Toxic Substances Control, to meet and confer with agencies and any responsible party, and to comply with the National Contingency Plan.	04/30/2014 - From ASSEMBLY Committee on LOCAL GOVERNMENT: Do pass to Committee on APPROPRIATIONS.	
AB 2725 Brown (D)	Urban Waterway Restoration		Requires the Department of Water Resources to release assumptions and estimates relating to water use for urban waterway restoration. Includes urban waterway restoration that increases water supplies for any beneficial use, as a regional project or program. Includes an urban waterway restoration project as an eligible project for the grant program under the Environmental Water Fund.	03/17/2014 - To ASSEMBLY Committee on WATER, PARKS AND WILDLIFE.	
AB 2738 Alejo (D)	Safe Drinking Water State Revolving Fund: Accounts		Relates to notification of an action on a business that discharged a specified chemical. Establishes the fees and charges account within the Safe Drinking Water State Revolving Fund Law of 1997 for deposit of prescribed administrative fees to be expended for certain administrative costs. Authorizes such fees to reimburse the costs for application processing and a loan disbursement fee and an annual adjustment to the fee schedule. Deletes a requirement for payment of charges by the Attorney General.	04/29/2014 - From ASSEMBLY Committee on ENVIRONMENTAL SAFETY AND TOXIC MATERIALS: Do pass to Committee on APPROPRIATIONS.	
ACA 8 Blumenfield (D)	Local Government Financing: Voter Approval		Proposes an amendment to the Constitution to create an additional exception to the 1% limit for an ad valorem tax rate imposed by a city, county, city and county, or special district, to service bonded indebtedness incurred to fund specified public improvements and facilities, or buildings used primarily to provide sheriff, police, or fire protection services, that is approved by 55% of the voters of the city, county, city and county, or special district.	06/27/2013 - To SENATE Committees on GOVERNANCE AND FINANCE and ELECTIONS AND CONSTITUTIONAL	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
HR 29 Gomez (D)	Outsourcing Public Services	Oppose	Opposes outsourcing of public services and assets, which harms transparency, accountability, shared prosperity, and competition, and supports processes that give public service workers the opportunity to develop their own plan on how to delivery cost-effective, high-quality services.	AMENDMENTS. 04/03/2014 - In ASSEMBLY. Read third time and amended. To third reading.;04/03/2014 - In ASSEMBLY. Read third time. Adopted by ASSEMBLY.	
SB 1 Steinberg (D)	Sustainable Communities Investment Authority		Authorizes certain public entities of a Sustainable Communities Investment Area to form a Sustainable Communities Investment Authority to carry out the Community Redevelopment Law. Provides for tax increment funding receipt under certain economic development and planning criteria. Establishes prequalification requirements for receipt of funding. Requires monitoring and enforcement of prevailing wage requirements within the area. Excludes certain types of farmland.	09/12/2013 - In SENATE. To Inactive File.	
SB 33 Wolk (D)	Infrastructure Financing Districts: Voter Approval		Revises provisions governing infrastructure financing districts. Eliminates the requirement of voter approval for creation of the district and for bond issuance, and authorizes the legislative body to create the district subject to specified procedures. Authorizes the creation of such district subject to specified procedures. Authorizes a district to finance specified actions and project. Prohibits financing until a certain requirement is met. Prohibits assistance to a vehicle dealer or big box retailer.	09/11/2013 - In ASSEMBLY. To Inactive File.	
SB 64 Corbett (D)	Global Warming Solutions: Clean Technology Investment		Creates the Clean Technology Investment Account within the Greenhouse Gas Reduction Fund. Requires appropriations of moneys in the fund or other funds to the account in the Budget Act. Makes such funds available for grants to nonprofit public benefit corporations and regional technology alliances to design and implement program that accelerate the development, demonstration, and deployment of technologies that would reduce greenhouse gas emissions and foster job creation in the state.	06/24/2013 - Re-referred to ASSEMBLY Committee on NATURAL RESOURCES.	
SB 103 Budget and Fiscal Review Cmt	Budget Act of 2013		Amends the Budget Act of 2013 by revising items of appropriation and making other changes for the purpose of addressing drought conditions in the State.	03/01/2014 - Signed by GOVERNOR.;03/01/2014 - Chaptered by Secretary of State. Chapter No. 2	
SB 104 Budget and Fiscal Review Cmt	Drought Relief		Provides provisions regarding drought relief to include fines for violations of permits and licenses issued by the State Water Resources Control Board, the disbursement of disaster assistance, civil fines for the improper water diversion, emergency regulations regarding the diversion of water and the fines for a related infraction and for groundwater replenishment, rental space for those with economic hardship, the employment training tax, and the	03/01/2014 - Signed by GOVERNOR.;03/01/2014 - Chaptered by Secretary of State. Chapter No. 3	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
SB 176 Galgiani (D)	Administrative Procedures		providing of funds for water management grants. Requires the Office of Administrative Law to allow electronic submission to the Office by a state agency of notices required to be published and information required to be submitted pursuant to specified provisions of existing law. Expands the public discussion required described in existing law to require a state agency proposing to adopt regulations, prior to publication of a notice of proposed adoption, amendment, or repeal, to involve parties that would be subject to the regulations in such discussions.	08/30/2013 - In ASSEMBLY Committee on APPROPRIATIONS: To Suspense File.;08/30/2013 - In ASSEMBLY Committee on APPROPRIATIONS: Held in committee.	
SB 193 Monning (D)	Hazard Evaluation System and Information Service		Relates to the repository of data on toxic materials and harmful physical agents in places of employment. Requires chemical manufacturers, formulators, suppliers, distributors, importers, and their agents to provide Hazard Evaluation System and Information Service the names and addresses of their customers who have purchased specified chemicals or commercial products containing those chemicals, and certain other information upon a request from the Service. Exempts the names and address from disclosure.	08/06/2013 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.	
SB 266 Lieu (D)	Prevailing Wages		Requires the body awarding a contract for public work to furnish a copy of the valid notice of completion for the public work or a document evidencing the awarding body's acceptance of the public work on a particular date, whichever occurs later. Requires that body to notify the Labor Commissioner if there has been no valid notice of completion filed, and no document evidencing the acceptance of the public work on a particular date. Requires civil wage assessments until an applicable document is received.	04/24/2014 - To ASSEMBLY Committee on LABOR AND EMPLOYMENT.	
SB 536 Berryhill T (R)	Property-Related Services		Provides that a county shall not be obligated to provide subsidies to cure any deficiencies in funding of property-related services provided within the jurisdiction of a defined district, under any of certain specified circumstances. Provides that this prohibition would not apply if the county's governing board had agreed to subsidize the district's services before the completion of a majority protest proceeding or election.	06/17/2013 - To ASSEMBLY Committee on LOCAL GOVERNMENT.	
SB 556 Corbett (D)	Agency: Ostensible: Nongovernmental Entities		Relates to third person contracts and ostensible agencies. Prohibits a person, firm, corporation, or association that is a nongovernmental entity and contracts to perform labor or services relating to public health or safety for a public entity from displaying on a vehicle or uniform a logo that reasonably could be interpreted as implying the labor or services are being performed by employees of a public agency, unless the vehicle and uniform displays a specified disclosure.	09/11/2013 - In ASSEMBLY. To Inactive File.	
SB 605 Lara (D)	California Global Warming Solutions Act: Scoping Plan		Requires the Controller to determine the amount of moneys collected and deposited in the Greenhouse Reduction Fund by the State Air Resources Board. Appropriates moneys from the fund for projects and programs in	08/30/2013 - In ASSEMBLY Committee on	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
			disadvantaged communities. Authorizes expenditures for administrative purposes. Requires the Board, when updating a greenhouse gas emissions reduction scoping plan, to include specified criteria, and to submit that criteria to the Joint Legislative Budget Committee.	APPROPRIATIONS: Not heard.	
SB 628 Beall (D)	Infrastructure Financing: Transit Priority Projects		Eliminates the requirement of voter approval for the adoption of an infrastructure financing plan, the creation of an infrastructure financing district, and the issuance of bonds with respect to a transit priority project. Requires a specified percentage of the revenue for increasing, improving, and preserving the supply of lower and moderate-income housing. Requires a low-income housing replacement ordinance.	08/19/2013 - Withdrawn from Enrollment.;08/19/2013 - Ordered Held at SENATE desk.	
SB 633 Pavley (D)	CEQA		Amends the California Environmental Quality Act. Specifies, for purposes of new information exception to the prohibition on requiring a subsequent or supplement environmental impact report, that a specified exception applies if new information was not known and could not have been known by the lead or any responsible agency at the time the report was certified as complete. Authorizes the development of guidelines to exempt projects involving minor temporary uses of land and public gatherings.	08/06/2013 - In ASSEMBLY. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.	
SB 731 Steinberg (D)	Environment: California Environmental Quality Act		Relates to the State Environmental Quality Act. Provides that certain impacts of a residential, mixed-use, or employment center project within a transit priority area shall not be considered significant impacts. Requires guidelines for thresholds of significance for noise and transportation impacts to be made available. Requires preparation of environmental impact reports. Extends the tolling of time for judicial actions and mitigation measures. Relates to sustainable communities planning and grants.	09/11/2013 - From ASSEMBLY Committee on LOCAL GOVERNMENT: Do pass as amended.	
SB 735 Wolk (D)	Sacramento-San Joaquin Delta Reform Act		Amends existing law that establishes the Delta Stewardship Council to create a Delta management plan. Authorizes prescribed local entities to enter into a memorandum of understanding or other written agreement with the council and the Department of Fish and Wildlife regarding multispecies conservation plans that describes how the parties would ensure that multispecies conservation plans that have been adopted or are under development are consistent with the Delta Plan.	08/13/2013 - In ASSEMBLY Committee on WATER, PARKS AND WILDLIFE: Not heard.	
SB 750 Wolk (D)	Building Standards: Water Meters: Multiunits		Requires a water purveyor providing water service to new multiunit residential or mixed use structures to require water measurement to each unit and to permit measurement to be by water meters or submeters. Requires submeters to comply with existing laws and regulations. Prohibits purveyor fees for submeters installed by the owner. Imposes certain requirements on landlords in related to the submetered water service. Relates to separate charge notification to tenant. Authorizes damages for violations.	08/13/2013 - In ASSEMBLY Committee on WATER, PARKS AND WILDLIFE: Failed passage.;08/13/2013 - In ASSEMBLY Committee on WATER, PARKS AND WILDLIFE:	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
				Reconsideration granted.	
SB 757 Berryhill T (R)	Junk Dealers		Relates to junk dealers and recyclers. Permits a seller to use a passport from any country or a Matricula Consular issued by Mexico, along with another form of identification bearing an address, or an identification card issued by the United States, as identification. Specifies that the provisions governing secondhand dealers and coin dealers do not apply to junk dealers.	09/06/2013 - In ASSEMBLY. To Inactive File.	
SB 785 Wolk (D)	Design-Build		Repeals certain authorizations and enacts provisions that would authorize the Department of General Services, the Department of Corrections and Rehabilitation, and certain local agencies to use the design-build procurement process for specified public works. Authorizes the use of such process by the Marin Healthcare District when contracting for building and improvements construction to a hospital or health facility. Requires specified moneys to be deposited into the State Public Works Enforcement Fund.	01/27/2014 - In SENATE. Read third time. Passed SENATE. *****To ASSEMBLY.	
SB 848 Wolk (D)	Safe Drinking Water, Water Quality, and Water Supply		Repeals the provisions of existing law that created the Safe, Clean, and Reliable Drinking Water Supply Act of 2012. Enacts the Safe Drinking Water, Water Quality, and Flood Protection Act of 2014 which would authorize the issuance of bonds pursuant to the State General Obligation Bond Law to finance a safe drinking water, water quality, and water supply program.	02/26/2014 - From SENATE Committee on GOVERNANCE AND FINANCE: Do pass to Committee on APPROPRIATIONS.	
SB 927 Cannella (R)	Safe, Clean, and Reliable Drinking Water Supply Act		Renames the Safe, Clean, and Reliable Drinking Water Supply Act of 2012 as the Safe, Clean, and Reliable Drinking Water Supply Act of 2014 and makes conforming changes. Authorizes the issuance of bonds in a specified amount by reducing the amount available for projects related to drought relief and water supply reliability.	04/22/2014 - In SENATE Committee on NATURAL RESOURCES AND WATER: Failed passage.;04/22/2014 - In SENATE Committee on NATURAL RESOURCES AND WATER: Reconsideration granted.	
SB 938 Galgiani (D)	Water Rights: Reconsideration of a Decision or Order		Makes a technical, nonsubstantive change to existing law that specifies procedures under which a person may be subject to administrative civil liability for unauthorized diversion or use of water, specifies procedures under which the State Water Resources Control Board is authorized to order a reconsideration of all or part of its decision or order.	02/20/2014 - To SENATE Committee on RULES.	
SB 946 Huff (R)	Community Facilities: Consolidated Sanitation District		Revises the governing body of a consolidated sanitation district located in Orange County to instead include one member of the city council of each city, except the city of Yorba Linda, one member of the county board of	04/24/2014 - In SENATE. Read third time. Passed SENATE.	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
SB 985 Pavley (D)	Stormwater Resource Planning		supervisors, and one member of the governing body of each sanitary district. Amends the Stormwater Resource Planning Act. Requires a stormwater resources plan to identify and prioritize the use of lands or easements in public ownership for stormwater and dry weather runoff projects. Eliminates the requirement that a stormwater resource plan be consistent with any applicable integrated regional water management plan. Requires an entity developing such a plan to identify opportunities to use existing publicly owned lands and easements to capture and reuse stormwater.	*****To ASSEMBLY. 04/30/2014 - From SENATE Committee on ENVIRONMENTAL QUALITY: Do pass as amended.	
SB 992 Nielsen (R)	Common Interest Developments: Property and Maintenance		Prohibits a common interest development association from imposing a fine or assessment on separate interest owners for yard maintenance issues related to under-watered plants and lawns during any period for which the Governor has declared a state of emergency due to drought.	05/01/2014 - To ASSEMBLY Committee on HOUSING AND COMMUNITY DEVELOPMENT.	
SB 1014 Jackson (D)	Pharmaceutical Waste: Home Generated		Requires the adoption of regulations to authorize a participant of a model drug waste disposal program to establish a program to collect and properly dispose to establish a program to collect and properly dispose of home-generated pharmaceutical waste. Requires an entity that elects to implement such a program to comply with the requirements specified in those regulations. Deems a participant to be in compliance with state laws and regulations concerning the handling, management, and disposal of such waste.	04/21/2014 - From SENATE Committee on BUSINESS, PROFESSIONS AND ECONOMIC DEVELOPMENT with author's amendments.;04/21/2014 - In SENATE. Read second time and amended. Re-referred to Committee on BUSINESS, PROFESSIONS & ECONOMIC DEVELOPMENT.;04/21/2014 - From SENATE Committee on BUSINESS, PROFESSIONS AND ECON. DEVELOPMENT: Do pass to Committee on APPROPRIATIONS.	
SB 1036 Pavley (D)	Urban Water Management Plans		Authorizes an urban water supplier to include within an urban water management plan certain energy-related information, including, but not limited to, an estimate of the amount of energy used to extract or divert	04/29/2014 - From SENATE Committee on NATURAL	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
			water supplies. Requires the Department of Water Resources to develop a methodology for the voluntary reporting of energy intensity of urban water systems and to include in the methodology in the guidance for the preparation of urban water management plans.	RESOURCES AND WATER: Do pass to Committee on APPROPRIATIONS.	
SB 1049 Pavley (D)	Integrated Regional Water Management Plans		Amends the Integrated Regional Water Management Planning Act. Includes projects or programs that reduce energy used to acquire, transport, treat, or distribute water, or that develop and and maintain computer models and analytic tools to model regional water management strategies as a regional project or program. Requires a regional water management group to include all water suppliers that are within a watershed area, the area over a groundwater basin or subbasin, or the area within a county's boundaries.	05/05/2014 - In SENATE Committee on APPROPRIATIONS: To Suspend File.	
SB 1080 Fuller (R)	Safe, Clean, and Reliable Drinking Water Supply Act		Relates to the Safe, Clean, and Reliable Drinking Water Supply Act of 2012, which, if approved by the voters, would authorize the issuance of bonds in a specified amount. Declares the intent of the Legislature to enact legislation to reduce the bond amount.	02/27/2014 - To SENATE Committee on RULES.	
SB 1113 Knight (R)	Property Taxation: Disabled Veterans Exemption: Refunds		Relates to veterans with disabilities. Provides that if a claim for a refund is filed for a disabled veterans' property tax exemption, the period of time for which a refund is required to be made shall be extended.	05/05/2014 - In SENATE Committee on APPROPRIATIONS: To Suspend File.	
SB 1144 Galgiani (D)	Common Interest Developments		Prohibits an association from imposing a fine or assessment on separate interest owners for yard maintenance issues related to under watered plants and lawns during any period for which the governor has declared a state of emergency due to drought. Prohibits a city, county, or city and county from imposing a fine or assessment on separate interest owners for yard maintenance issues.	03/06/2014 - To SENATE Committee on TRANSPORTATION AND HOUSING.	
SB 1168 Pavley (D)	Groundwater Management		Enacts the Sustainable Groundwater Management Act. Authorizes unspecified entities to develop a defined sustainable groundwater management plan, to be developed and adopted to encompass an entire basin or subbasin in an unspecified manner, and according to an unspecified schedule. Authorizes the State to take action to cause such a plan to be developed, adopted, and implemented.	05/05/2014 - In SENATE Committee on APPROPRIATIONS: To Suspend File.	
SB 1214 Anderson (R)	State Controller and Property Tax Postponement		Amends the Senior Citizens and Disabled Citizens Property Tax Postponement Law. Extends the prohibition against a person filing a claim for postponement and the Controller from accepting application for postponement under the program. Creates a related fund. Increases the equity interest requirement. Provides additional procedures regarding the filing of a related claim. Regards procedures relating to tax defaulted property.	05/06/2014 - In SENATE. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.	
SB 1216 Morrell (R)	Homeowners' Exemption and Renter's Credit		Increases the homeowners' property tax exemption to a specified amount of the full value of a dwelling. Requires the County Assessor to adjust the amount of the homeowners' exemption. Provides for an increase in the	04/22/2014 - Re-referred to SENATE Committee on	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
			renter's tax credit based on a specified adjusted gross income amount.	GOVERNANCE AND FINANCE.	
SB 1250 Hueso (D)	Safe, Clean and Reliable Drinking Water Supply Act		Repeals the Safe, Clean and Reliable Drinking Water Supply Act of 2012 that would authorize the issuance of bonds to finance a safe drinking water and water supply reliability program. Enacts the Safe, Clean, and Reliable Drinking Water Supply Act of 2014, which, if adopted by voters would authorize the issuance of bonds in a specified amount to finance a safe drinking water and water supply program.	04/29/2014 - In SENATE Committee on NATURAL RESOURCES AND WATER: Heard, remains in Committee.	
SB 1281 Pavley (D)	Oil and Gas Production: Water Use Reporting		Requires the monthly statement to the State Oil and Gas Supervisor to include the source and amount of fluid or gas injected into each well, and the source and amount of water used to generate injected fluid or gas. Requires the statement to include additional information, including the treatment of water and the use of treated or recycled water in oil and gas field activities.	04/29/2014 - From SENATE Committee on NATURAL RESOURCES AND WATER: Do pass to Committee on APPROPRIATIONS.	
SB 1292 Hueso (D)	Safe Drinking water State Revolving Fund		Relates to the Safe Drinking Water State Revolving Fund. Increases the maximum amount of a construction grant award for a water system serving severely disadvantaged communities.	04/30/2014 - From SENATE Committee on ENVIRONMENTAL QUALITY: Do pass to Committee on APPROPRIATIONS.	
SB 1323 Lieu (D)	Property Taxation		Revises provisions of existing law regarding the refund of any tax, penalty, or interest resulting from the assessed value of property, that is to be cancelled or refunded, provided an application for exemption is thereafter filed. Updates the tax exemption for property used for parking by a religious-related entity and the congregation size requirement therefor. Relates to an affidavit required for a vessel property tax exemption.	04/29/2014 - In SENATE. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.	
SB 1362 Correa (D)	Hazardous Waste: Disposal: Exemption		Excludes from the definition of the term disposal from existing law that regulates the disposal of hazardous waste, the onsite movement of soil at an active outdoor sport shooting range, if the movement is done to facilitate the removal and recycling of spent ammunition materials existing on the site as a result of the normal use of the range and the residual soil is replaced within the are from which it was originally removed.	04/21/2014 - From SENATE Committee on RULES with author's amendments.;04/21/2014 - In SENATE. Read second time and amended. Re-referred to Committee on RULES.	
SB 1370 Galgiani (D)	Reliable Water Supply Bond Act of 2014		Repeals the Safe, Clean, and Reliable Drinking Water Supply Act of 2012. Enacts the Reliable Water Supply Bond Act of 2014 to finance surface water storage projects.	04/08/2014 - In SENATE Committee on NATURAL RESOURCES AND WATER: Heard, remains in Committee.	

Bill No. Author	Title	IRWD Position	Summary/Effects	Status	Notes
SB 1390 Correa (D)	Santa Ana River Conservancy Program		Establishes the Santa Ana River Conservancy Program to acquire specified lands within a specified distance on either side of the riverbed of the Santa Ana River. Prescribes the management, powers, and duties of the conservancy for purposes of the program. Creates the Santa Ana River Conservancy Program Account. Authorizes expending funds in the account for land acquisition, capital improvements, and support of the program's operations.	04/29/2014 - In SENATE. Read second time and amended. Re-referred to Committee on APPROPRIATIONS.	
SB 1420 Wolk (D)	Urban Water Management Plans		Requires an urban water management plan to quantify and report on distribution system water loss. Authorizes water use projections to display and account for the water savings estimated to result from adopted codes, standards, ordinances, or transportation and land use plans, when the information is available and applicable to the supplier. Requires the plan, or amendments to be submitted electronically to the Department of Water Resources and include department forms, tables, or displays.	04/29/2014 - From SENATE Committee on NATURAL RESOURCES AND WATER: Do pass to Committee on APPROPRIATIONS.	
SB 1451 Hill (D)	Environmental Quality: Judicial Review: Standing		Relates to the California Environmental Quality Act. Requires that the alleged grounds for Act noncompliance shall have been presented to a public agency prior to the close of a public hearing on the project under certain conditions. Limits the standing of a person objecting to the project prior to the close of the hearing before the filing of notice of determination for which no public comment period was provided by the Act. Extends related preclusion provisions.	05/06/2014 - In SENATE Committee on JUDICIARY: Not heard.	
SB 1462 Wolk (D)	Local Government: Omnibus Bill		Authorizes the legislative body to include the maturity or maturities of the bonds in the ordinance, resolution, indenture, agreement, or other instrument providing for issuance. Specifies that the description of the boundaries of the proposed district may be accomplished by reference to a map on file in the office of the clerk of either the city or county that is proposing to establish the district.	05/01/2014 - In SENATE. Read third time. Passed SENATE. *****To ASSEMBLY.	
SCA 11 Hancock (D)	Local Government: Special Taxes: Voter Approval		Proposes an amendment to the Constitution to condition the imposition, extension, or increase of a special tax by a local government upon the approval of 55% of the voters voting on the proposition, if the proposition proposing the tax contains specified requirements.	06/27/2013 - Re-referred to SENATE Committee on APPROPRIATIONS.	

EXHIBIT "B"

May 15, 2014

Summary of Water Bond Proposals

(Please note that changes from the last version have been placed in red text)

	SB7x 2 <i>(Bond Currently on the November 2014 ballot)</i>	SB 848 (Wolk) <i>(February 20, 2014, Version)</i>	AB 1331 (Rendon) <i>April & May 8 2014, Version)</i>	ACWA's <i>(As of March 12, 2014)</i>	IRWD's Asks <i>(As of January 21, 2014)</i>
Water Quality Improvement Bond Issues	\$1.452 billion	\$1.452 billion	\$1.452 billion	\$1.452 billion	
Water Quality in Disadvantaged Communities	\$90 million <i>(funding placed in Chapter 5)</i>	\$100 million	Funding outlined below.	Funding outlined below.	
State Water Pollution Control Revolving Fund Small Community Grant Fund	\$75 million <i>(funding placed in Chapter 5)</i>	\$380 million	\$ 400 million	\$200 million	
			\$10 million of the \$400 million may be expended by the SWRCB for technical assistance.	*ACWA increased the amount of funding it is advocating be allocated for water quality by \$400 million. Originally a total of \$300 million was allocated for water quality in disadvantaged communities.	
Public Health Emergency Funding			\$100 million	\$100 million	
Water Quality in Private Wells Serving Disadvantaged Communities		\$20 million	\$10 million of the \$100 million may be made available for grants to private well owners that have no other source of water and serve members of a disadvantaged community.		
Safe Drinking Water (Public Infrastructure Improvements)	\$290 million <i>(funding placed in Chapter 5)</i>	\$400 million	\$400 million	\$400 million	
Groundwater Quality	\$1.0 billion <i>(funding placed in Chapter 10)</i>		\$100 million	\$300 million	
Conservancies	\$1.535 billion	\$1.535 billion	\$1.535 billion	\$1.535 billion	
Regional Watershed Funds	\$1.535 billion	\$250 million*	\$1 billion*	\$550 million	
		* For projects outside of the Delta	* \$750 million is now being given to specific conservancies and \$250 million will go to the Secretary of Natural Resources for multibenefit watershed and urban rivers enhancement projects in urban watersheds.		
State Obligations	\$250 Funding is allocated for Klamath River dam removal.	\$500 million Includes funding the State's obligation for the Klamath Basin Restoration Agreement, Quantification Settlement Agreement, San Joaquin River Restoration Settlement, and Tahoe Regional Planning Compact.	\$500 million Includes funding the State's obligation for the Klamath Basin Restoration Agreement, Quantification Settlement Agreement, San Joaquin River Restoration Settlement, Section 3406(d) of Title 34 of Public Law 102-575, and other multiparty settlement agreement in effect as of January 1, 2014, including the Tahoe Regional Planning Compact.	\$0 State's obligations should compete for funding as other project would.	
Natural Resource Agency Support of State Conservancies	\$250 million			\$250 million	
Misc.	\$250 million	\$50 million		\$250 million	

Summary of Water Bond Proposals, Page 2
 (Please note that changes from the last version have been placed in red text)

	SB7x 2 <i>(Bond Currently on the November 2014 ballot)</i>	SB 848 (Wolk) <i>(February 20, 2014, Version)</i>	AB 1331 (Rendon) <i>(April 8- May 8 2014, Version)</i>	ACWA's <i>(As of March 12, 2014)</i>	IRWD's Asks <i>(As of January 21, 2014)</i>
Regional Water Security Water Supply Reliability	\$1.4 billion	\$1.5 billion	\$1 billion	\$1.1 billion	
Integrated Water Management Plans	\$1.4 billion <i>(funding in Chapter 6)</i>	\$1.5 billion	\$1 billion*	\$1.1 billion	
Orange County's IRWMP Allocation	\$128 million of the \$1.4 billion is designated to the Santa Ana Region, which includes all of Orange County.	\$174 million of the \$1.5 billion is designated to the Santa Ana subregion & \$138 million is designated to the San Diego subregion.	\$119 million of the \$1 billion is designated to the Santa Ana Region. \$96 million of the \$1 billion is designated for the San Diego region, which includes South Orange County.	Advocates that the Santa Ana Region receive \$140.8 million of the \$1.1 billion, and that San Diego receive \$95.7 million.	
Water Conservation	\$250 million <i>(funding in Chapter 11)</i>		\$250 million outside of the IRWMP Allocation	\$250 million outside of the IRWMP Allocation	
Multibenefit Stormwater Management Projects		\$500 million	\$250 million outside of the IRWMP Allocation	\$250 million within the IRWMP Allocation	
Water Recycling & Advanced Treatment Technology Projects	\$1.0 billion <i>(funding in Chapter 11)</i>		\$500 million The \$500 million also allows for the funding of water supply reliability improvements for critical urban water supplies in designated superfund areas with groundwater contamination are now eligible for this funding.	\$500 million* *Recycled water funding should be placed in its own chapter and not combined within the IRWMP chapter.	\$1 billion* * Funding should be provided outside of the IRWMP process.
Local and regional drought relief projects					
Local and regional conveyance projects					
Delta Stormwater	\$1.5 billion	\$1.5 billion	\$1 billion	\$1.1 billion	\$1.1 billion
Ecosystem Restoration	\$1.5 billion	\$800 million	\$600 million is allocated to the Sacramento-san Joaquin Delta Conservancy		
Flood/Levee Improvements		\$400 million	\$400 million		
Water Storage	\$2.2 billion	\$1.925 billion	\$2.2 billion	\$2.2 billion	\$2.2 billion
Continuous Appropriation Provisions	<i>includes continuous appropriation</i>	<i>NO continuous appropriation</i>	<i>NO continuous appropriation.</i>	<i>include continuous appropriation</i>	<i>include continuous appropriation</i>
Eligible Storage Projects	Surface Storage Groundwater storage Groundwater aquifer remediation or contamination prevention	Surface Storage Groundwater storage Groundwater aquifer remediation or contamination prevention Projects that result in a permanent reduction of water exported from the Delta and a transfer of the equivalent water right to instream flow Recycled water storage Conjunctive use & reservoir reoperation	Surface Storage Groundwater storage Groundwater aquifer remediation or contamination prevention Construct & Expand Stormwater Retention Facilities	Surface storage Groundwater storage	Recycled water storage should be added as a permissible use of these funds
Flood Control & Stormwater Management		\$2.45 billion			
Central Valley Flood Protection Plan					
Natural Resources Agency Flood Control Projects					
Control of Runoff from Agricultural Lands					
Total Investment for All Bills	\$11.14 billion	\$6.425 billion	\$6.8 billion	\$7.11 billion	

EXHIBIT "C"

AMENDED IN ASSEMBLY APRIL 23, 2014

CALIFORNIA LEGISLATURE—2013–14 REGULAR SESSION

ASSEMBLY BILL

No. 2712

Introduced by Assembly Member Daly
(Principal coauthors: Assembly Members Allen and Wagner)
(Principal coauthor: Senator Correa)

February 21, 2014

An act to add Chapter 6.655 (commencing with Section 25268.1) to Division 20 of the Health and Safety Code amend Section 8 of the Orange County Water District Act (Chapter 924 of the Statutes of 1933), relating to hazardous materials.

LEGISLATIVE COUNSEL'S DIGEST

AB 2712, as amended, Daly. Hazardous materials: Orange County Water District. *District: groundwater remediation.*

Existing law, the Orange County Water District Act, prescribes the powers of the Orange County Water District. Existing law grants the district the power to perform actions useful or necessary to replenish the underground water basin within the district, or to augment and protect the quality of the common water supplies of the district. The act authorizes the district to conduct any investigations of the quality of the surface and groundwaters within the district that the district determines to be necessary and appropriate to determine whether those waters are contaminated or polluted. The act authorizes the district to expend available funds to perform any cleanup, abatement, or remedial work required under the circumstances which, in the determination of the board of directors, is required by the magnitude of the endeavor or the urgency of prompt action needed to prevent, abate, or contain any threatened or existing contamination of, or pollution to, the surface or

groundwaters of the district, and requires the person causing or threatening to cause that contamination or pollution to be liable to the district to the extent of the reasonable costs actually incurred.

This bill would require the district, in order to obtain, by legal action or proceeding, the recovery of the costs of cleaning up or containing contamination, abating the effects of the contamination or pollution, or taking other emergency, removal, or remedial action described above, to provide notice of the action to a regional water quality control board and the Department of Toxic Substances Control, to meet and confer with agencies and any responsible party, and to comply with the requirements for consistency with the National Contingency Plan, as prescribed. The bill would state the intent of the Legislature that the district adopt a policy to address the process for groundwater remediation projects and that the district enter into a memorandum of understanding between it, the Department of Toxic Substances Control, the California Regional Water Quality Control Board, Santa Ana region, and the Orange County Health Care Agency to establish a process of review of the district's proposed groundwater remediation projects.

The bill would declare that a special law is necessary and that a general law cannot be made applicable within the meaning of Section 16 of Article IV of the California Constitution.

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

This bill would provide that, if the Commission on State Mandates determines that the bill contains costs mandated by the state, reimbursement for those costs shall be made pursuant to these statutory provisions.

~~(1) Under existing law, the Site Designation Committee in the California Environmental Protection Agency is authorized to designate an administering agency for oversight of a remedial action to a hazardous substance release. Existing law requires the administering agency to supervise the site investigation and remedial action conducted by the responsible party and, upon determining that the site investigation and remedial action has been satisfactorily completed, to issue a certificate of completion to the responsible party.~~

~~This bill would impose requirements on the Orange County Water District when conducting a remediation project at a hazardous waste release site located in the district and would prohibit the district from~~

~~implementing a remediation project unless the plan for the proposed remediation project is approved pursuant to the specified procedures. The bill would require the district to develop a plan for a proposed remediation project and to submit the plan, for review and approval, to the Department of Toxic Substances Control, a California regional water quality control board, or a certified unified program agency, as specified. If the regulatory agency does not approve the plan, the bill would allow the district to submit the plan to the site designation committee for review. The site designation committee would be required to disapprove the plan, approve the plan, or conditionally approve the plan.~~

~~If the regulatory agency disapproves the plan and the plan is not submitted for review, or if the site designation committee disapproves the plan, the bill would prohibit the district from seeking cost recovery from a responsible party for the hazardous materials release site pursuant to specified state and local laws. The bill would also prohibit the district from seeking that cost recovery with regard to the parts of a conditionally approved plan that were revised or deleted by the site designation committee.~~

~~The bill would impose a state-mandated local program by requiring the district and a certified unified program agency to take specified actions:~~

~~(2) The bill would declare that a special law is necessary and that a general law cannot be made applicable within the meaning of Section 16 of Article IV of the California Constitution.~~

~~(3) The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement.~~

~~This bill would provide that with regard to certain mandates no reimbursement is required by this act for a specified reason.~~

~~With regard to any other mandates, this bill would provide that, if the Commission on State Mandates determines that the bill contains costs so mandated by the state, reimbursement for those costs shall be made pursuant to the statutory provisions noted above.~~

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

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

1 SECTION 1. *It is the intent of the Legislature that the Orange*
2 *County Water District adopt a policy that would address the*

1 *process for groundwater remediation projects with the following*
2 *goals:*

3 *(a) To provide increased clarity and certainty of the process*
4 *for all interested parties.*

5 *(b) To provide for the swift remediation of groundwater*
6 *contamination.*

7 *(c) To uphold the responsibilities of the district.*

8 *SEC. 2. It is further the intent of the Legislature that the Orange*
9 *County Water District enter into a memorandum of understanding*
10 *between the district, the Department of Toxic Substances Control,*
11 *California Regional Water Quality Control Board, Santa Ana*
12 *region, and the Orange County Health Care Agency to establish*
13 *a process for review of the district's proposed groundwater*
14 *remediation projects.*

15 *SEC. 3. Section 8 of the Orange County Water District Act*
16 *(Chapter 924 of the Statutes of 1933), as added by Section 4 of*
17 *Chapter 802 of the Statutes of 1989, is amended to read:*

18 *Sec. 8. (a) The district may conduct any investigations of the*
19 *quality of the surface and groundwaters within the district—~~which~~*
20 *that the district determines to be necessary and appropriate to*
21 *determine whether those waters are contaminated or polluted.*

22 *(b) The district may expend available funds to perform any*
23 *cleanup, abatement, or remedial work required under the*
24 *circumstances which, in the determination of the board of directors,*
25 *is required by the magnitude of the endeavor or the urgency of*
26 *prompt action needed to prevent, abate, or contain any threatened*
27 *or existing contamination of, or pollution to, the surface or*
28 *groundwaters of the district. This action may be taken in default*
29 *of, or in addition to, remedial work by the person causing the*
30 *contamination or pollution, or other persons. The district may*
31 *perform the work itself, by contract, or by or in cooperation with*
32 *any other governmental agency.*

33 *(c) If, pursuant to subdivision (b), the contamination or pollution*
34 *is cleaned up or contained, the effects thereof abated, or, in the*
35 *case of threatened contamination or pollution, other necessary*
36 *emergency, removal, or remedial action is taken, and the district*
37 *takes action in accordance with subdivision (d), the person causing*
38 *or threatening to cause that contamination or pollution shall be*
39 *liable to the district to the extent of the reasonable costs actually*
40 *incurred in cleaning up or containing the contamination or*

1 pollution, abating the effects of the contamination or pollution, or
2 taking other remedial action. The amount of those costs, together
3 with court costs and reasonable attorneys' fees, shall be recoverable
4 in a civil action by, and paid to, the district. In any such action,
5 the necessity for the cleanup, containment, abatement, or remedial
6 work, and the reasonableness of the costs incurred therewith, shall
7 be presumed, and the defendant shall have the burden of proving
8 that the work was not necessary, and the costs not reasonable.

9 *(d) In order to obtain, by legal action or proceeding, the*
10 *recovery of the costs of cleaning up or containing contamination,*
11 *abating the effects of the contamination or pollution, or taking*
12 *other emergency, removal, or remedial action pursuant to*
13 *subdivision (c), the district shall do all of the following:*

14 *(1) Provide notice of the action to the office of the regional*
15 *water quality control board for the region in which the action shall*
16 *be taken and the Department of Toxic Substances Control.*

17 *(2) With respect to the contamination, meet and confer with any*
18 *agency that may be an administering agency and make reasonable*
19 *efforts to meet and confer with any responsible party that is subject*
20 *to an order or directive of the administering agency.*

21 *(3) Comply with the requirements for consistency with the*
22 *National Contingency Plan (40 C.F.R. Part 300) that would apply*
23 *to the State of California if it were seeking to recover costs*
24 *pursuant to Section 9607(a)(4)(A) of the Comprehensive*
25 *Environmental Response, Compensation, and Liability Act of 1980*
26 *(42 U.S.C. Sec. 9607(a)(4)(A)) or the Carpenter-Presley-Tanner*
27 *Hazardous Substances Account Act (Chapter 6.8 (commencing*
28 *with Section 25300) of Division 20 of the Health and Safety Code).*

29 *SEC. 4. The Legislature finds and declares that a special law*
30 *is necessary and that a general law cannot be made applicable*
31 *within the meaning of Section 16 of Article IV of the California*
32 *Constitution because the Department of Toxic Substances Control,*
33 *the California regional water quality control board, and the*
34 *certified unified program agency for the County of Orange have*
35 *provided and continue to provide oversight for groundwater*
36 *cleanups at many sites in north and central Orange County, and*
37 *the Orange County Water District has undertaken investigations*
38 *and planning for several potential groundwater cleanup projects*
39 *covering large parts of those same areas, creating the potential*
40 *for conflicting and inconsistent regulation of businesses and*

1 *landowners in those parts of Orange County that may be*
2 *responsible for conducting groundwater investigations and*
3 *cleanups at their sites.*

4 *SEC. 5. If the Commission on State Mandates determines that*
5 *this act contains costs mandated by the state, reimbursement to*
6 *local agencies and school districts for those costs shall be made*
7 *pursuant to Part 7 (commencing with Section 17500) of Division*
8 *4 of Title 2 of the Government Code.*

9 ~~SECTION 1. Chapter 6.655 (commencing with Section~~
10 ~~25268.1) is added to Division 20 of the Health and Safety Code,~~
11 ~~to read:~~

12
13 ~~CHAPTER 6.655. ORANGE COUNTY WATER DISTRICT~~
14 ~~REMEDICATION~~
15

16 ~~25268.1. For purposes of this chapter, the following terms shall~~
17 ~~have the following meanings:~~

18 ~~(a) "CUPA" means a certified unified program agency certified~~
19 ~~to implement the unified program pursuant to Chapter 6.11~~
20 ~~(commencing with section 25404).~~

21 ~~(b) "Department" means the Department of Toxic Substances~~
22 ~~Control.~~

23 ~~(c) "District" means the Orange County Water District,~~
24 ~~established pursuant to the Orange County Water District Act~~
25 ~~(Chapter 924 of the Statutes of 1933).~~

26 ~~(d) "Hazardous materials release site" has the same meaning as~~
27 ~~defined in subdivision (c) of Section 25260.~~

28 ~~(e) "Plan" means the plan for the proposed remediation project~~
29 ~~submitted to the regulatory agency pursuant to Section 25268.2.~~

30 ~~(f) "Regional board" means a California regional water quality~~
31 ~~control board.~~

32 ~~(g) "Regulatory agency" or "appropriate regulatory agency"~~
33 ~~means the department, or the CUPA or the regional board that is~~
34 ~~responsible for overseeing the implementation of a remediation~~
35 ~~project by the district.~~

36 ~~(h) "Remediation project" means a project that consists of either,~~
37 ~~or both, of the following:~~

38 ~~(1) A remedial action, as defined in subdivision (g) of Section~~
39 ~~25260.~~

1 ~~(2) A site investigation, as defined in subdivision (i) of Section~~
2 ~~25260.~~

3 ~~(i) “Responsible party” means a person described in subdivision~~
4 ~~(a) of Section 25323.5 of this code or subdivision (a) of Section~~
5 ~~13304 of the Water Code.~~

6 ~~(j) “Site designation committee” means the committee~~
7 ~~established pursuant to Section 25261.~~

8 ~~25268.2. (a) The district shall comply with the requirements~~
9 ~~of this chapter when conducting a remediation project at a~~
10 ~~hazardous materials release site located in the district and shall~~
11 ~~not implement a remediation project unless the plan for the~~
12 ~~proposed remediation project is approved by the appropriate~~
13 ~~regulatory agency pursuant to this section or by the site designation~~
14 ~~committee pursuant to Section 25268.3.~~

15 ~~(b) If the board of the district elects to implement a remediation~~
16 ~~project, the board shall approve the remediation project and notify~~
17 ~~the appropriate regulatory agency that will be overseeing the~~
18 ~~district’s implementation of the remediation project.~~

19 ~~(c) The district shall develop a plan for the proposed remediation~~
20 ~~project and shall submit the plan for the proposed remediation~~
21 ~~project to the appropriate regulatory agency, for review and~~
22 ~~approval by the appropriate regulatory agency.~~

23 ~~(d) (1) If the regulatory agency does not approve the plan, the~~
24 ~~regulatory agency and the district shall promptly meet and confer~~
25 ~~to resolve the regulatory agency’s objections.~~

26 ~~(2) If, after conducting the meeting specified in paragraph (1),~~
27 ~~the regulatory agency does not approve the plan, the district may~~
28 ~~submit the plan for the proposed remediation project to the site~~
29 ~~designation committee for review pursuant to Section 25268.3.~~

30 ~~(3) If the district does not submit the disapproved plan to the~~
31 ~~site designation committee, the district shall not seek cost recovery~~
32 ~~from a responsible party for the hazardous materials release site~~
33 ~~pursuant to the provisions specified in paragraphs (1) to (3),~~
34 ~~inclusive of subdivision (a) of Section 25268.4.~~

35 ~~25268.3. (a) The site designation committee shall review a~~
36 ~~plan submitted to it for a proposed remediation project pursuant~~
37 ~~to the procedures specified in this section.~~

38 ~~(b) The district and the regulatory agency may present any~~
39 ~~relevant information to the site designation committee and shall~~
40 ~~be given a reasonable opportunity to be heard.~~

1 ~~(e) After reviewing the plan, the site designation committee~~
2 ~~shall take one of the following actions, impartially and by a~~
3 ~~majority vote:~~

4 ~~(1) Disapprove the plan.~~

5 ~~(2) Approve the plan.~~

6 ~~(3) Conditionally approve the plan. The proposed conditions~~
7 ~~may require the district to revise the plan to delete any part of the~~
8 ~~plan to which the regulatory agency objected.~~

9 ~~25268.4. (a) If the site designation committee disapproves the~~
10 ~~plan pursuant to paragraph (1) of subdivision (e) of Section~~
11 ~~25268.3, the district shall not seek cost recovery from a responsible~~
12 ~~party for the hazardous materials release site pursuant to any of~~
13 ~~the following:~~

14 ~~(1) Division 7 (commencing with Section 13000) of the Water~~
15 ~~Code.~~

16 ~~(2) Chapter 6.5 (commencing with Section 25100), Chapter 6.7~~
17 ~~(commencing with Section 25280), Chapter 6.75 (commencing~~
18 ~~with Section 25299.10), or Chapter 6.8 (commencing with Section~~
19 ~~25300).~~

20 ~~(3) Any other state or local law imposing liability for cleanup~~
21 ~~of releases of hazardous materials.~~

22 ~~(b) If the site designation committee deletes any part of the plan~~
23 ~~as a condition for approval, pursuant to paragraph (3) of~~
24 ~~subdivision (e) of Section 25268.3, and the district proceeds with~~
25 ~~the project as conditionally approved, the district shall not seek~~
26 ~~cost recovery from a responsible party for the hazardous materials~~
27 ~~release site pursuant to the provisions specified in paragraphs (1)~~
28 ~~to (3), inclusive, of subdivision (a), with regard to the parts of the~~
29 ~~plan that were revised or deleted by the site designation committee.~~

30 ~~SEC. 2. The Legislature finds and declares that a special law~~
31 ~~is necessary and that a general law cannot be made applicable~~
32 ~~within the meaning of Section 16 of Article IV of the California~~
33 ~~Constitution because the Department of Toxic Substances Control,~~
34 ~~the California regional water quality control board, and the certified~~
35 ~~unified program agency for the County of Orange have provided~~
36 ~~and continue to provide oversight for groundwater cleanups at~~
37 ~~many sites in north and central Orange County, and the Orange~~
38 ~~County Water District has undertaken investigations and planning~~
39 ~~for several potential groundwater cleanup projects covering large~~
40 ~~parts of those same areas, creating the potential for conflicting and~~

1 inconsistent regulation of businesses and landowners in those parts
2 of Orange County that may be responsible for conducting
3 groundwater investigations and cleanups at their sites.

4 ~~SEC. 3. No reimbursement is required by this act pursuant to~~
5 ~~Section 6 of Article XIII B of the California Constitution for certain~~
6 ~~costs that may be incurred by a local agency or school district~~
7 ~~because, in that regard, a local agency or school district has the~~
8 ~~authority to levy service charges, fees, or assessments sufficient~~
9 ~~to pay for the program or level of service mandated by this act;~~
10 ~~within the meaning of Section 17556 of the Government Code.~~

11 However, if the Commission on State Mandates determines that
12 this act contains other costs mandated by the state, reimbursement
13 to local agencies and school districts for those costs shall be made
14 pursuant to Part 7 (commencing with Section 17500) of Division
15 4 of Title 2 of the Government Code.

EXHIBIT "D"

Governor Brown's Executive Order To Redouble State Drought Actions

A PROCLAMATION OF A CONTINUED STATE OF EMERGENCY

WHEREAS on January 17, 2014, I proclaimed a State of Emergency to exist in the State of California due to severe drought conditions; and

WHEREAS state government has taken expedited actions as directed in that Proclamation to minimize harm from the drought; and

WHEREAS California's water supplies continue to be severely depleted despite a limited amount of rain and snowfall since January, with very limited snowpack in the Sierra Nevada mountains, decreased water levels in California's reservoirs, and reduced flows in the state's rivers; and

WHEREAS drought conditions have persisted for the last three years and the duration of this drought is unknown; and

WHEREAS the severe drought conditions continue to present urgent challenges: water shortages in communities across the state, greatly increased wildfire activity, diminished water for agricultural production, degraded habitat for many fish and wildlife species, threat of saltwater contamination of large fresh water supplies conveyed through the Sacramento-San Joaquin Bay Delta, and additional water scarcity if drought conditions continue into 2015; and

WHEREAS additional expedited actions are needed to reduce the harmful impacts from the drought as the state heads into several months of typically dry conditions; and

WHEREAS the magnitude of the severe drought conditions continues to present threats beyond the control of the services, personnel, equipment, and facilities of any single local government and require the combined forces of a mutual aid region or regions to combat; and

WHEREAS under the provisions of section 8558(b) of the Government Code, I find that conditions of extreme peril to the safety of persons and property continue to exist in California due to water shortage and drought conditions with which local authority is unable to cope; and

WHEREAS under the provisions of section 8571 of the Government Code, I find that strict compliance with the various statutes and regulations specified in this proclamation would prevent, hinder, or delay the mitigation of the effects of the drought.

NOW, THEREFORE, I, EDMUND G. BROWN JR., Governor of the State of California, in accordance with the authority vested in me by the Constitution and statutes of the State of California, including the Emergency Services Act and in particular Government Code section 8567, do hereby issue this Executive Order, effective immediately, to mitigate the effects of the drought conditions upon the people and property within the State of California.

IT IS HEREBY ORDERED THAT:

1. The orders and provisions contained in Proclamation No. 1-17-2014, dated January 17, 2014, remain in full force and effect except as modified herein.
2. The Department of Water Resources and the State Water Resources Control Board (Water Board) will immediately and expeditiously process requests to move water to areas of need, including requests involving

voluntary water transfers, forbearance agreements, water exchanges, or other means. If necessary, the Department will request that the Water Board consider changes to water right permits to enable such voluntary movements of water.

3. Recognizing the tremendous importance of conserving water during this drought, all California residents should refrain from wasting water:

- a. Avoid using water to clean sidewalks, driveways, parking lots and other hardscapes.
- b. Turn off fountains and other decorative water features unless recycled or grey water is available.
- c. Limit vehicle washing at home by patronizing local carwashes that use recycled water.
- d. Limit outdoor watering of lawns and landscaping to no more than two times a week.

Recreational facilities, such as city parks and golf courses, and large institutional complexes, such as schools, business parks and campuses, should immediately implement water reduction plans to reduce the use of potable water for outdoor irrigation.

Commercial establishments such as hotel and restaurants should take steps to reduce water usage and increase public awareness of the drought through measures such as offering drinking water only upon request and providing customers with options to avoid daily washing of towels or sheets.

Professional sports facilities, such as basketball arenas, football, soccer, and baseball stadiums, and hockey rinks should reduce water usage and increase public awareness of the drought by reducing the use of potable water for outdoor irrigation and encouraging conservation by spectators.

The Water Board shall direct urban water suppliers that are not already implementing drought response plans to limit outdoor irrigation and other wasteful water practices such as those identified in this Executive Order. The Water Board will request by June 15 an update from urban water agencies on their actions to reduce water usage and the effectiveness of these efforts. The Water Board is directed to adopt emergency regulations as it deems necessary, pursuant to Water Code section 1058.5, to implement this directive.

Californians can learn more about conserving water from the Save Our Water campaign (SaveOurH2O.org).

4. Homeowners Associations (commonly known as HOAs) have reportedly fined or threatened to fine homeowners who comply with water conservation measures adopted by a public agency or private water company. To prevent this practice, pursuant to Government Code section 8567, I order that any provision of the governing document, architectural or landscaping guidelines, or policies of a common interest development will be void and unenforceable to the extent it has the effect of prohibiting compliance with the water-saving measures contained in this directive, or any conservation measure adopted by a public agency or private water company, any provision of Division 4, Part 5 (commencing with section 4000) of the Civil Code notwithstanding.

5. All state agencies that distribute funding for projects that impact water resources, including groundwater resources, will require recipients of future financial assistance to have appropriate conservation and efficiency programs in place.

6. The Department of Fish and Wildlife will immediately implement monitoring of winter-run Chinook salmon in the Sacramento River and its tributaries, as well as several runs of salmon and species of smelt in the Delta as described in the April 8, 2014 Drought Operations Plan.

7. The Department of Fish and Wildlife will implement projects that respond to drought conditions through habitat restoration and through water infrastructure projects on property owned or managed by the Department of Fish and Wildlife or the Department of Water Resources for the benefit of fish and wildlife impacted by the drought.

8. The Department of Fish and Wildlife will work with other state and federal agencies and with landowners in priority watersheds to protect threatened and endangered species and species of special concern and maximize the beneficial uses of scarce water supplies, including employment of voluntary agreements to secure instream flows, relocation of members of those species, or through other measures.
9. The Department of Water Resources will expedite the consideration and, where appropriate, the implementation, of pump-back delivery of water through the State Water Project on behalf of water districts.
10. The Water Board will adopt statewide general waste discharge requirements to facilitate the use of treated wastewater that meets standards set by the Department of Public Health, in order to reduce demand on potable water supplies.
11. The Department of Water Resources will conduct intensive outreach and provide technical assistance to local agencies in order to increase groundwater monitoring in areas where the drought has significant impacts, and develop updated contour maps where new data becomes available in order to more accurately capture changing groundwater levels. The Department will provide a public update by November 30 that identifies groundwater basins with water shortages, details remaining gaps in groundwater monitoring, and updates its monitoring of land subsidence and agricultural land fallowing.
12. The California Department of Public Health, the Office of Emergency Services, and the Office of Planning and Research will assist local agencies that the Department of Public Health has identified as vulnerable to acute drinking water shortages in implementing solutions to those water shortages.
13. The Department of Water Resources and the Water Board, in coordination with other state agencies, will provide appropriate assistance to public agencies or private water companies in establishing temporary water supply connections to mitigate effects of the drought.
14. For the protection of health, safety, and the environment, CAL FIRE, the Office of Emergency Services, the Department of Water Resources, and the Department of Public Health, where appropriate, may enter into contracts and arrangements for the procurement of materials, goods, and services necessary to quickly mitigate the effects of the drought.
15. Pursuant to the drought legislation I signed into law on March 1, 2014, by July 1, 2014, the California Department of Food and Agriculture, in consultation with the Department of Water Resources and Water Board, will establish and implement a program to provide financial incentives to agricultural operations to invest in water irrigation treatment and distribution systems that reduce water and energy use, augment supply, and increase water and energy efficiency in agricultural applications.
16. To assist landowners meet their responsibilities for removing dead, dying and diseased trees and to help landowners clear other trees and plants close to structures that increase fire danger, certain noticing requirements are suspended for these activities. Specifically, the requirement that any person who conducts timber operations pursuant to the exemptions in Title 14, California Code of Regulations sections 1038 (b) and (c) submit notices to CAL FIRE under the provisions of Title 14, California Code of Regulations, section 1038.2 is hereby suspended. Timber operations pursuant to sections 1038(b) and (c) may immediately commence operations upon submission of the required notice to CAL FIRE and without a copy of the Director's notice of acceptance at the operating site. All other provisions of these regulations will remain in effect.
17. The Water Board will adopt and implement emergency regulations pursuant to Water Code section 1058.5, as it deems necessary to prevent the waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of water, to promote water recycling or water conservation, and to require curtailment of

diversions when water is not available under the diverter's priority of right.

18. In order to ensure that equipment and services necessary for drought response can be procured quickly, the provisions of the Government Code and the Public Contract Code applicable to state contracts, including, but not limited to, advertising and competitive bidding requirements, are hereby suspended for directives 7 and 14. Approval by the Department of Finance is required prior to the execution of any contract entered into pursuant to these directives.

19. For several actions called for in this proclamation, environmental review required by the California Environmental Quality Act is suspended to allow these actions to take place as quickly as possible. Specifically, for actions taken by state agencies pursuant to directives 2, 3, 6-10, 13, 15, and 17, for all actions taken pursuant to directive 12 when the Office of Planning and Research concurs that local action is required, and for all necessary permits needed to implement these respective actions, Division 13 (commencing with section 21000) of the Public Resources Code and regulations adopted pursuant to that Division are hereby suspended. The entities implementing these directives will maintain on their websites a list of the activities or approvals for which these provisions are suspended. This suspension and that provided in paragraph 9 of the January 17, 2014 Proclamation will expire on December 31, 2014, except that actions started prior to that date shall not be subject to Division 13 for the time required to complete them.

20. For several actions called for in this proclamation, certain regulatory requirements of the Water Code are suspended to allow these actions to take place as quickly as possible. Specifically, for actions taken pursuant to directive 2, section 13247 of the Water Code is suspended. The 30-day comment period provided in section 1726(f) of the Water Code is also suspended for actions taken pursuant to directive 2, but the Water Board will provide for a 15-day comment period. For actions taken by state agencies pursuant to directives 6 and 7, Chapter 3 of Part 3 (commencing with section 85225) of the Water Code is suspended. The entities implementing these directives will maintain on their websites a list of the activities or approvals for which these provisions are suspended.

I FURTHER DIRECT that as soon as hereafter possible, this Proclamation shall be filed in the Office of the Secretary of State and that widespread publicity and notice be given to this Proclamation.

IN WITNESS WHEREOF I have hereunto set my hand and caused the Great Seal of the State of California to be affixed this 25th day of April, 2014

EDMUND G. BROWN JR.
Governor of California

ATTEST:

DEBRA BOWEN
Secretary of State

PC
May 27, 2014
Prepared by: M. Cortez/M. Hoolihan/
S. Malloy/R. Mori
Submitted by: K. Burton *KB*
Approved by: Paul Cook *Paul Cook*

CONSENT CALENDAR

UPCOMING PROJECTS STATUS REPORT

SUMMARY:

A status report of Irvine Ranch Water District's Upcoming Projects is presented to the Board for information.

BACKGROUND:

The information, which is attached as Exhibit "A", is a status report submitted quarterly to the Committee and Board for their review.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on May 20, 2014.

RECOMMENDATION:

RECEIVE AND FILE.

LIST OF EXHIBITS:

Exhibit "A" – Upcoming Projects Status Report

EXHIBIT "A"

IRWD UPCOMING PROJECTS STATUS REPORT

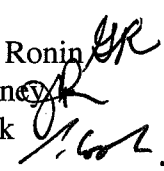
Project Name	Start	Start	Construction	Construction
	Planning	Design	Award	Final Acceptance
Portola Springs 16" RW Pipeline Improvements			Spring 2014	Fall 2014
MWRP Phase 2 Expansion Landscaping			Spring 2014	Fall 2014
SJM Building Campus Mold Remediation			Spring 2014	Winter 2015
RMS at 3 DW Reservoirs			Fall 2014	
2014 Sewer Rehabilitation			Summer 2014	
Syphon Reservoir Interim Facilities				Spring 2014
Silverado Canyon Rd DW Pipeline Improvements			Spring 2014	Winter 2015
PA 51, RW Facilities between OCTA and LV Street (RA w/Heritage Fields)				Spring 2014
PA 51, Marine Way DW, RW (RA w/Heritage Fields)			Fall 2014	Fall 2015
PA 51, Ridge Valley, Marine to Trabuco, DW, S (RA w/Heritage Fields)				Summer 2014
PA 51, Ridge Valley, Trabuco to Irvine Blvd, DW, S, RW (RA w/Heritage Fields)				Spring 2014
PA 51, Reach A Sewer Technology to OCTA R/W (RA w/Heritage Fields)				Fall 2014
PA 51, C St from Trabuco Rd to LQ St, S (RA w/Heritage Fields)			Spring 2014	Winter 2015
PA 51, Reach A Sewer from Marine Way to Trabuco Rd (RA w/Heritage Fields)			Spring 2014	Winter 2015
PA 51, C St from Ridge Valley to LN St, DW, RW (RA w/Heritage Fields)			Spring 2014	Winter 2015
PA 51, LQ St from Ridge Valley to LY St, S, RW (RA w/Heritage Fields)			Spring 2014	Winter 2015
PA 51, LN St from C St to LY St, DW, RW (RA w/Heritage Fields)			Spring 2014	Winter 2015
PA 51, South C St and LY St, S, RW (RA w/Heritage Fields)			Spring 2014	Winter 2015
PA 9B Jeffrey Road Zones 3, A, B and C Pipelines (RA w/ICDC)				Summer 2014
PA 40 Phase 3B RW (RA w/ICDC)				Spring 2014
PA 40 Neighborhood 2G RW Improvements (RA w/ICDC)				Spring 2014
Tustin Legacy Villas Capital Sewer (RA w/ICDC)				Spring 2014
PA 1, Orchard Hills Neighborhood 2 RW (RA w/ICDC)				Summer 2014
PA 1, Orchard Hills Zone C RW (RA w/ICDC)				Fall 2014
PA 5B, Phase 1A DW, RW (RA w/ICDC)				Summer 2014
PA 5B, Phase 1B RW (RA w/ICDC)				Fall 2014
PA 5B, Phase 2 RW (RA w/ICDC)				Fall 2014
PA 5B, RW Zone B Improvements (RA w/ICDC)				Summer 2014
PA 6, Neighborhood 3, Phase 1 RW (RA w/ICDC)			Spring 2014	Spring 2015
Barranca, Armstrong to Tustin Ranch Road DW, S, RW Facilities (RA w/Tustin)				Spring 2014
Warner, Legacy Rd to Tustin Ranch Rd, Capital DW and RW Improvements (RA w/Tustin)				Summer 2014
Warner and Armstrong DW, RW (RA w/Tustin)			Spring 2014	Fall 2014
PA 18 South, Hidden Canyon DW RW (RA w/Toll Brothers)				Fall 2014
Manning and Portola Zone 9 BPS Emergency Generators				Spring 2014
Cathodic Protection for GAP Pipe Segment			Summer 2014	Fall 2014
Foothill Ranch Zone 6 and Coastal Zone 4 BPS Check Valve Replacement			Spring 2014	Summer 2014
Newport Coast Cathodic Protection Joint Bonding			Fall 2014	Spring 2015
Santiago Dam and Outlet Tower Seismic Stability Study	On-going			

May 27, 2014

Prepared by: Gretchen Ronin

Submitted by: Jenny Ronin

Approved by: Paul Cook



CONSENT CALENDAR

PROPOSED SALARY GRADE CHANGES FOR FY 2014-15

SUMMARY:

As a follow-up item to the adoption of the FY 2014-15 Operating Budget, staff requests that the Board:

- Approve the revised salary grade schedule, effective July 1, 2014; and
- Adopt a resolution rescinding Resolution No. 2014-22 and establishing revised Schedule of Positions and Salary Rate Ranges

BACKGROUND:

Each year during the process of developing the Operating Budget, staff reviews the current budgeted positions, salaries, and benefits to determine the necessary staffing levels and to maintain a competitive compensation package within our industry. Staff efforts for the operating budget were focused on current and future staffing needs. The justifications for staffing and organizational changes and the associated costs and cost savings have been incorporated in the adopted Operating Budget.

Staff recommends that three job titles be removed from the Salary Grade Schedule, that nine job titles be added for new or re-titled positions, and that four job titles be changed to correspond with the reclasses adopted in the operating budget. All of the proposed changes to the Salary Grade Schedule are presented in redlined form in Exhibit "A".

FISCAL IMPACTS:

The fiscal impacts of this item were included in the FY 2014-15 Operating Budget adopted by the Board of Directors on April 28, 2014.

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 is a follow-up to the adoption of the FY2014-15 Operating Budget, adopted by the Board of Directors on April 28, 2014.

RECOMMENDATION:

THAT THE BOARD APPROVE THE PROPOSED CHANGES IN THE DISTRICT'S BUDGETED POSITIONS AS OUTLINED IN THE ADOPTED FY 2014-15 OPERATING BUDGET; APPROVE THE SALARY GRADE SCHEDULE CHANGES EFFECTIVE JULY 1, 2014; AND ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2014 - ____

**RESOLUTION OF THE BOARD OF DIRECTORS OF THE
IRVINE RANCH WATER DISTRICT RESCINDING
RESOLUTION NO.2014-22 AND ESTABLISHING REVISED
SCHEDULE OF POSITIONS AND SALARY RATE RANGES**

LIST OF EXHIBITS:

Exhibit "A" – Resolution and Proposed IRWD Salary Grade Schedule

EXHIBIT "A"

RESOLUTION NO. 2014 -

RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT,
RESCINDING RESOLUTION NO. 2014-22 AND
ESTABLISHING A REVISED SCHEDULE OF POSITIONS
AND SALARY RATE RANGES

WHEREAS, the Board of Directors of Irvine Ranch Water District, by adoption of Resolution No. 2014-22 on March 24, 2014, established a Schedule of Positions and Salary Rate Ranges of the Irvine Ranch Water District; and

WHEREAS, the Board of Directors of Irvine Ranch Water District has reviewed the Schedule of Positions and Salary Rate Ranges and desires to make revisions thereto.

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

Section 1. That the Schedule of Positions and Salary Rate Ranges adopted by Resolution No. 2014-22 on March 24, 2014 is hereby rescinded, effective July 1, 2014.

Section 2. That the Schedule of Positions and Salary Rate Ranges for the Irvine Ranch Water District be and hereby is approved and adopted as more particularly set forth in Exhibit "A" to this Resolution, attached hereto and by this reference made a part hereto.

Section 3. That the provisions of this Resolution shall be effective July 1, 2014.

ADOPTED, SIGNED and APPROVED THIS 27th day of May 2014.

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:
BOWIE, ARNESON, WILES & GIANNONE

IRVINE RANCH WATER DISTRICT

SALARY GRADE SCHEDULE

GENERAL EMPLOYEES' UNIT

December 1, 2013 July 1, 2014

<u>NON-EXEMPT</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>EXCEPTIONAL PERFORMANCE TOP OF RANGE</u>
SALARY GRADE 1.N	\$2604	\$3228	\$3389
SALARY GRADE 2.N	\$2661	\$3317	\$3483
SALARY GRADE 3.N	\$2717	\$3408	\$3579
SALARY GRADE 4.N	\$2766	\$3507	\$3682
SALARY GRADE 5.N	\$2828	\$3604	\$3785
SALARY GRADE 6.N Office Assistant Mail Coordinator	\$2885	\$3709	\$3894
SALARY GRADE 7.N	\$2942	\$3812	\$4003
SALARY GRADE 8.N	\$3007	\$3922	\$4118
SALARY GRADE 9.N	\$3065	\$4029	\$4231
SALARY GRADE 10.N	\$3127	\$4139	\$4345
SALARY GRADE 11.N Material Control Clerk I Maintenance Apprentice Utility Worker	\$3188	\$4246	\$4456
SALARY GRADE 12.N	\$3251	\$4370	\$4589
SALARY GRADE 13.N Customer Service Specialist I Support Specialist	\$3312	\$4495	\$4721

<u>NON-EXEMPT</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>EXCEPTIONAL PERFORMANCE TOP OF RANGE</u>
SALARY GRADE 14.N	\$3386	\$4622	\$4853
SALARY GRADE 15.N Office Specialist Collection Systems Technician I	\$3459	\$4745	\$4982
SALARY GRADE 16.N Accounting Clerk Customer Service Field Technician Metering Systems Technician I Water Maintenance Technician I Laboratory Analyst	\$3540	\$4877	\$5121
SALARY GRADE 17.N Customer Service Specialist II	\$3616	\$4999	\$5249
SALARY GRADE 18.N Material Control Clerk II Senior Support Specialist	\$3695	\$5134	\$5391
SALARY GRADE 19.N Senior Office Specialist Purchasing Coordinator	\$3779	\$5264	\$5528
SALARY GRADE 20.N Senior Accounting Clerk Engineering Technician I Operator I Maintenance Mechanic Collection Systems Technician II	\$3880	\$5433	\$5706
SALARY GRADE 21.N Customer Service Specialist III Senior Customer Service Field Technician Collection Systems CCTV Technician II	\$3990	\$5598	\$5879
SALARY GRADE 22.N Sr. Purchasing Coordinator Metering Systems Tech. II Water Maintenance Technician II Facilities Services Technician Vehicle/Equipment Mechanic Recycled Water Specialist	\$4100	\$5774	\$6064

<u>NON-EXEMPT</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>EXCEPTIONAL PERFORMANCE TOP OF RANGE</u>
SALARY GRADE 23.N Construction Inspector I	\$4208	\$5949	\$6246
SALARY GRADE 24.N Buyer Cross Connection Specialist Wetlands Specialist Water Use Efficiency Specialist	\$4327	\$6135	\$6442
SALARY GRADE 25.N Engineering Technician II Senior Facilities Services Technician Senior Collection Systems Technician Senior Collection Systems CCTV Technician	\$4441	\$6324	\$6641
SALARY GRADE 26.N Metering Systems Tech. III Water Maintenance Technician III Scientist	\$4578	\$6512	\$6837
SALARY GRADE 27.N Accountant Risk Analyst Senior Vehicle/Equipment Maintenance Mechanic Operator II Senior Maintenance Mechanic Senior Recycled Water Specialist	\$4711	\$6703	\$7038
SALARY GRADE 28.N Construction Inspector II Automation Technician Landscape Contracts Administrator Electrical Technician Instrumentation Technician	\$4849	\$6902	\$7248
SALARY GRADE 29.N Public Affairs Specialist Senior Buyer Engineering Technician III Senior Wetlands Specialist Operator III Lead Maintenance Mechanic Recycled Water Project Specialist Senior Water Use Efficiency Specialist	\$4993	\$7103	\$7458

<u>NON-EXEMPT</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>EXCEPTIONAL PERFORMANCE TOP OF RANGE</u>
SALARY GRADE 30.N Senior Electrical Technician Senior Instrumentation Technician	\$5144	\$7313	\$7679
SALARY GRADE 31.N Treasury Analyst Information Services Coordinator Construction Inspector III Senior Scientist Water Use Efficiency Analyst	\$5296	\$7533	\$7909
SALARY GRADE 32.N Automation Specialist	\$5449	\$7756	\$8144
SALARY GRADE 33.N Operations Coordinator	\$5608	\$7981	\$8380
SALARY GRADE 34.N	\$5774	\$8202	\$8613
SALARY GRADE 35.N	\$5948	\$8448	\$8871

| *Effective Date* ~~12/1/13~~ 07/01/14

IRVINE RANCH WATER DISTRICT
SALARY GRADE SCHEDULE
GENERAL EMPLOYEES' UNIT

December 1, 2013 July 1, 2014

<u>EXEMPT</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>EXCEPTIONAL PERFORMANCE TOP OF RANGE</u>
SALARY GRADE 1.E	\$4187	\$5380	\$5648
SALARY GRADE 2.E	\$4326	\$5588	\$5868
SALARY GRADE 3.E	\$4466	\$5797	\$6087
SALARY GRADE 4.E	\$4605	\$6019	\$6320
SALARY GRADE 5.E	\$4745	\$6242	\$6555
SALARY GRADE 6.E	\$4908	\$6484	\$6809
SALARY GRADE 7.E	\$5066	\$6724	\$7059
SALARY GRADE 8.E	\$5230	\$6986	\$7336
SALARY GRADE 9.E	\$5389	\$7242	\$7604
SALARY GRADE 10.E Analyst Assistant Engineer	\$5570	\$7517	\$7893
SALARY GRADE 11.E Laboratory QA/QC	\$5748	\$7795	\$8185
SALARY GRADE 12.E Programmer/Analyst Energy Analyst	\$5935	\$8094	\$8497
SALARY GRADE 13.E Right of Way & Real Property Manager Automation Programmer <u>Water Resources Planner</u>	\$6126	\$8388	\$8806

<u>EXEMPT</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>EXCEPTIONAL PERFORMANCE TOP OF RANGE</u>
SALARY GRADE 14.E Associate Engineer	\$6326	\$8712	\$9146
SALARY GRADE 15.E	\$6526	\$9037	\$9487
SALARY GRADE 16.E	\$6744	\$9379	\$9848
SALARY GRADE 17.E Engineer	\$6960	\$9724	\$10209
SALARY GRADE 18.E Water Resources Manager	\$7184	\$10094	\$10598
SALARY GRADE 19.E Water Resources Manager	\$7413	\$10467	\$10991
SALARY GRADE 20.E	\$7643	\$10854	\$11397
SALARY GRADE 21.E	\$7876	\$11246	\$11809
SALARY GRADE 22.E	\$8129	\$11664	\$12249
SALARY GRADE 23.E	\$8387	\$12087	\$12692
SALARY GRADE 24.E	\$8614	\$12574	\$13202
SALARY GRADE 25.E	\$8880	\$13050	\$13701
SALARY GRADE 26.E	\$9285	\$13739	\$14426
SALARY GRADE 27.E	\$9711	\$14467	\$15190
SALARY GRADE 28.E	\$10157	\$15229	\$15991
SALARY GRADE 29.E	\$10620	\$16035	\$16837
SALARY GRADE 30.E	\$11111 A-7	\$16886	\$17730

<u>EXEMPT</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>EXCEPTIONAL PERFORMANCE TOP OF RANGE</u>
SALARY GRADE 31.E	\$11663	\$17844	\$18736
SALARY GRADE 32.E	\$12248	\$18861	\$19804
SALARY GRADE 33.E	\$12857	\$19931	\$20928
SALARY GRADE 34.E	\$13502	\$21063	\$22115

| *Effective Date* ~~12/1/13~~07/01/14

IRVINE RANCH WATER DISTRICT
SALARY GRADE SCHEDULE
UNREPRESENTED POSITIONS

December 1, 2013 July 1, 2014

<u>NON-EXEMPT</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>EXCEPTIONAL PERFORMANCE TOP OF RANGE</u>
SALARY GRADE U1.N	\$2604	\$3228	\$3389
SALARY GRADE U2.N	\$2661	\$3317	\$3483
SALARY GRADE U3.N	\$2717	\$3408	\$3579
SALARY GRADE U4.N	\$2766	\$3507	\$3682
SALARY GRADE U5.N	\$2828	\$3604	\$3785
SALARY GRADE U6.N	\$2885	\$3709	\$3894
SALARY GRADE U7.N	\$2942	\$3812	\$4003
SALARY GRADE U8.N	\$3007	\$3922	\$4118
SALARY GRADE U9.N	\$3065	\$4029	\$4231
SALARY GRADE U10.N	\$3127	\$4139	\$4345
SALARY GRADE U11.N	\$3188	\$4246	\$4456
SALARY GRADE U12.N	\$3251	\$4370	\$4589
SALARY GRADE U13.N	\$3312	\$4495	\$4721
SALARY GRADE U14.N	\$3386	\$4622	\$4853
SALARY GRADE U15.N	\$3459	\$4745	\$4982

<u>NON-EXEMPT</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>EXCEPTIONAL PERFORMANCE TOP OF RANGE</u>
SALARY GRADE U16.N	\$3540	\$4877	\$5121
SALARY GRADE U17.N	\$3616	\$4999	\$5249
SALARY GRADE U18.N	\$3695	\$5134	\$5391
SALARY GRADE U19.N	\$3779	\$5264	\$5528
SALARY GRADE U20.N	\$3880	\$5433	\$5706
SALARY GRADE U21.N	\$3990	\$5598	\$5879
SALARY GRADE U22.N Executive Secretary Human Resources Assistant	\$4100	\$5774	\$6064
SALARY GRADE U23.N	\$4208	\$5949	\$6246
SALARY GRADE U24.N	\$4327	\$6135	\$6442
SALARY GRADE U25.N	\$4441	\$6324	\$6641
SALARY GRADE U26.N Executive Assistant	\$4578	\$6512	\$6837
SALARY GRADE U27.N	\$4711	\$6703	\$7038
SALARY GRADE U28.N	\$4849	\$6902	\$7248
SALARY GRADE U29.N Payroll Administrator	\$4993	\$7103	\$7458
SALARY GRADE U30.N Facilities Services Supervisor Fleet Supervisor Collection Systems Supervisor	\$5144	\$7313	\$7679

<u>NON-EXEMPT</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>EXCEPTIONAL PERFORMANCE TOP OF RANGE</u>
SALARY GRADE U31.N Human Resources Analyst Cross Connection Supervisor Water Maintenance Supervisor	\$5296	\$7533	\$7909
SALARY GRADE U32.N Network Administrator Mechanical Maintenance Supervisor	\$5449	\$7756	\$8144
SALARY GRADE U33.N Supervising Wetlands//Wildlife Biologist <u>Construction Inspection Supervisor</u>	\$5608	\$7981	\$8380
SALARY GRADE U34.N Automation Supervisor Electrical Supervisor Instrumentation Supervisor	\$5774	\$8202	\$8613
SALARY GRADE U35.N Operations Supervisor	\$5948	\$8448	\$8871

IRVINE RANCH WATER DISTRICT
SALARY GRADE SCHEDULE
UNREPRESENTED POSITIONS

~~December 1, 2013~~ July 1, 2014

<u>EXEMPT</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>EXCEPTIONAL PERFORMANCE TOP OF RANGE</u>
SALARY GRADE U1.E	\$4187	\$5380	\$5648
SALARY GRADE U2.E	\$4326	\$5588	\$5868
SALARY GRADE U3.E	\$4466	\$5797	\$6087
SALARY GRADE U4.E	\$4605	\$6019	\$6320
SALARY GRADE U5.E	\$4745	\$6242	\$6555
SALARY GRADE U6.E	\$4908	\$6484	\$6809
SALARY GRADE U7.E	\$5066	\$6724	\$7059
SALARY GRADE U8.E	\$5230	\$6986	\$7336
SALARY GRADE U9.E	\$5389	\$7242	\$7604
SALARY GRADE U10.E Customer Service Supervisor Administrative Assistant	\$5570	\$7517	\$7893
SALARY GRADE U11.E Senior Accountant Financial Analyst Recycled Water Supervisor	\$5748	\$7795	\$8185
SALARY GRADE U12.E	\$5935	\$8094	\$8497
SALARY GRADE U13.E Senior Human Resources Analyst Senior Analyst GIS Supervisor Laboratory Supervisor Water Use Efficiency Supervisor	\$6126	\$8388	\$8806

<u>EXEMPT</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>EXCEPTIONAL PERFORMANCE TOP OF RANGE</u>
SALARY GRADE U14.E District Secretary Assistant Facilities/Fleet Manager	\$6326	\$8712	\$9146
SALARY GRADE U15.E Senior Programmer/Analyst Senior Network Administrator Applications Analyst Assistant Preventive Maintenance <u>Field Services</u> Manager Assistant Construction & Repair Services Manager	\$6526	\$9037	\$9487
SALARY GRADE U16.E Customer Service Manager Assistant Operations Manager Principal Analyst <u>Natural Resources Manager</u> Collection Systems Manager Laboratory Manager <u>Water Use Efficiency Manager</u> Regulatory Compliance Manager	\$6744	\$9379	\$9848
SALARY GRADE U17.E District Safety and Security Manager Purchasing Manager Construction Inspection Manager Construction & Repair <u>Field Services</u> Manager Water Maintenance Manager Facilities/Fleet Manager Electrical Services <u>Manager</u> Government Relations Manager	\$6960	\$9724	\$10209
SALARY GRADE U18.E Public Affairs Manager Human Resources Manager Treasury Manager Manager of Contracts Admin & Risk Senior Applications Analyst Chief Plant Operator Water Quality Manager	\$7184	\$10094	\$10598
SALARY GRADE U19.E Operations Manager <u>Electrical and Automation Manager</u> Superintendent of Maintenance & Reliability <u>Manager</u> Recycled Water Development Manager	\$7413	\$10467	\$10991

<u>EXEMPT</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>EXCEPTIONAL PERFORMANCE TOP OF RANGE</u>
SALARY GRADE U20.E Assistant Controller Manager of Strategic Planning and Analysis Applications Manager Networking & Support Manager Senior Engineer Assistant Director of Water Operations Assistant Director of Maintenance	\$7643	\$10854	\$11397
SALARY GRADE U21.E	\$7876	\$11246	\$11809
SALARY GRADE U22.E	\$8129	\$11664	\$12249
SALARY GRADE U23.E Principal Engineer Assistant Director of Water Operations Assistant Director of Recycling Operations Assistant Director of Water Policy Assistant Director of Maintenance	\$8387	\$12087	\$12692
SALARY GRADE U24.E	\$8614	\$12574	\$13202
SALARY GRADE U25.E	\$8880	\$13050	\$13701
SALARY GRADE U26.E	\$9285	\$13739	\$14426
SALARY GRADE U27.E Director of Public Affairs Director of Human Resources Treasurer/Director of Risk Management Director of Administrative Services Director of Wastewater Operations Director of Water Resources	\$9711	\$14467	\$15190
SALARY GRADE U28.E	\$10157	\$15229	\$15991
SALARY GRADE U29.E	\$10620	\$16035	\$16837

<u>EXEMPT</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>	<u>EXCEPTIONAL PERFORMANCE TOP OF RANGE</u>
SALARY GRADE U30.E Executive Director of Finance Executive Director of Engineering & Water Quality Executive Director of Operations Executive Director of Water Policy	\$11111	\$16886	\$17730
SALARY GRADE U31.E	\$11663	\$17844	\$18736
SALARY GRADE U32.E	\$12248	\$18861	\$19804
SALARY GRADE U33.E	\$12857	\$19931	\$20928
SALARY GRADE U34.E General Manager	\$13502	\$21063	\$22115

| *Effective Date* ~~12/1/13~~07/01/14

DS
May 27, 2014
Prepared by: R. Thatcher/M. Hoolihan
Submitted by: K. Burton *(Signature)*
Approved by: Paul Cook *(Signature)*.

CONSENT CALENDAR

QUITCLAIM OF REAL PROPERTY TO BROOKFIELD LF 147 LLC

SUMMARY:

Staff recommends that the Board adopt a resolution approving the execution of a quitclaim deed to the Brookfield LF 147 LLC quitclaiming the existing easements for sewer pipeline purposes recorded June 20, 2002 as Instrument Nos. 2002000517046 and 2002000514047, both of Official Records of Orange County and lying within proposed Tract No. 17446 in Foothill Ranch.

BACKGROUND:

Brookfield Homes is subdividing a portion of the Foothill Ranch Auto Center into a condominium residential development known as Tract No. 17446. Brookfield has requested that IRWD quitclaim two sewer easements granted to IRWD when the land was used for auto dealerships to clear title. The easements in question were recorded June 20, 2002 as Instrument Nos. 2002000517046 and 2002000514047, both of Official Records of Orange County. Staff has reviewed the request and concurs that the easements are no longer needed and recommends that the Board approve the quitclaim request. New easements for water, sewer and access purposes are being dedicated to IRWD on the map of Tract No. 17446. The Resolution authorizing the quitclaim is attached as Exhibit "A", the Easement Quitclaim Deed is attached as Exhibit "B", and a map showing the location of the quitclaim areas is attached as Exhibit "C".

FISCAL IMPACT:

None.

ENVIRONMENTAL COMPLIANCE:

This project is not subject to the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15061 (b) (3), in that CEQA applies only to projects that may result in a direct physical change in the environment or reasonably foreseeable indirect physical change in the environment.

COMMITTEE REVIEW:

Quitclaims are not routinely taken to Committee prior to submittal for Board approval.

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2014 - __

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT
APPROVING EXECUTION OF THE QUITCLAIM DEED TO
BROOKFIELD LF 147 LLC

LIST OF EXHIBITS:

- Exhibit "A" – Resolution
- Exhibit "B" – Easement Quitclaim Deed
- Exhibit "C" – Location Map

EXHIBIT "A"

RESOLUTION NO. 2014 -

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT
APPROVING EXECUTION OF THE QUITCLAIM DEED TO
BROOKFIELD LF 147 LLC

WHEREAS, Brookfield LF 147 LLC ("Brookfield") has requested that the Irvine Ranch Water District Board approve the quitclaim of the existing easement for sewer pipeline purposes per deeds recorded June 20, 2002 as Instrument Nos. 2002000517046 and 2002000517047, both of Official Records of Orange County, California; and

WHEREAS, the purpose of the quitclaim is because Brookfield is subdividing a portion of the former Foothill Ranch Auto Center into Tract No. 17446; and

WHEREAS, the existing pipelines within said easements have been abandoned; and

WHEREAS, staff has reviewed and confirmed that the easements herein referred are no longer needed and can be quitclaimed; and

WHEREAS, the proposed quitclaim has been presented to this Board of Directors, copy of which is attached hereto as Exhibit "B".

NOW, THEREFORE, BE IT RESOLVED, the Quitclaim Deed attached hereto as Exhibit "B" to Brookfield LF 147 LLC, a Delaware limited liability company, herein described and hereby is approved and execution by the District's officers is authorized.

ADOPTED, SIGNED and APPROVED this 27th day of May 2014.

President/Vice President
IRVINE RANCH WATER DISTRICT
and of the Board of Directors thereof

Secretary/Assistant Secretary
IRVINE RANCH WATER DISTRICT
and of the Board of Directors thereof

APPROVED AS TO FORM:
BOWIE, ARNESON, WILES & GIANNONE
IRWD Legal Counsel

By _____

EXHIBIT "B"

**RECORDING REQUESTED BY AND
WHEN RECORDED RETURN TO:**

Brookfield LF 147 LLC
3090 Bristol St. #200
Costa Mesa, CA 92626
Attn:

ASSESSOR PARCEL NO(S):

612-161-11, 12

(Space Above This Line For Recorder's Use)

IRWD Doc. No. E _____
IRWD Res.No. _____

DOCUMENTARY TRANSFER TAX \$ consideration less than \$100
_____ Computed on the consideration or value of property conveyed; OR
_____ Computed on the consideration or value less liens or encumbrances
remaining at time of sale.

Signature or Declarant or Agent determining tax – Firm Name

EASEMENT QUITCLAIM DEED

FOR VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, IRVINE RANCH WATER DISTRICT, a California Water District organized under and existing pursuant to Section 34000 *et seq.* of the California Water Code, does hereby REMISE, RELEASE, AND FOREVER QUITCLAIM to BROOKFIELD LF 147 LLC, a Delaware limited liability company or the current owner of record,

all RIGHT, TITLE and INTEREST in the real property located in the City of Lake Forest, County of Orange, State of California, , as more particularly described on Exhibit "A" and depicted on Exhibit "B", attached hereto and by this reference mad a part hereof.

The rights hereby quitclaimed are not necessary or useful in the performance of the duties of said Irvine Ranch Water District.

Dated: _____, 2014

IRVINE RANCH WATER DISTRICT,
a California Water District

By: _____
Name: Steven E. LaMar
Title: President

By: _____
Name: Leslie Bonkowski
Title: District Secretary

MAIL TAX STATEMENTS TO THE ABOVE ADDRESS

STATE OF CALIFORNIA)
)
COUNTY OF ORANGE)

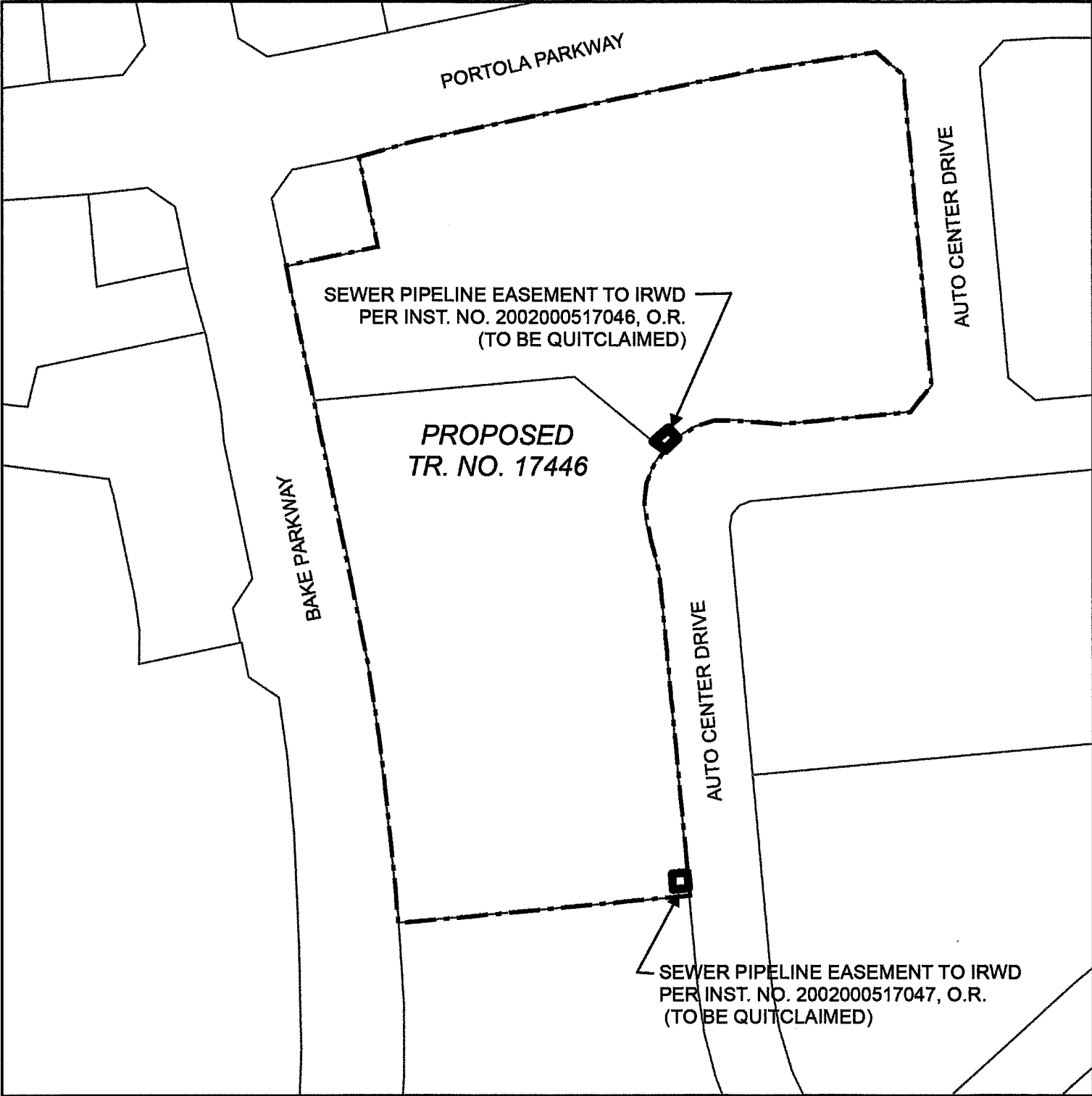
On _____, 2014, before me, _____, a Notary Public in and for said State, personally appeared Steven E. Lamar and Leslie Bonkowski, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (SEAL)
Notary Public in and for said State

EXHIBIT "C" LOCATION MAP



**QUITCLAIM OF REAL PROPERTY TO
BROOKFIELD LF 147 LLC**



128
May 27, 2014
Prepared by: R. Thatcher/M. Hoolihan
Submitted by: K. Burton (KA)
Approved by: Paul Cook [Signature]

CONSENT CALENDAR

QUITCLAIM OF REAL PROPERTY
TO THE IRVINE LAND COMPANY LLC

SUMMARY:

Staff recommends that the Board adopt a resolution approving the execution of a quitclaim deed to The Irvine Land Company LLC quitclaiming the easements to IRWD for water well purposes per Instrument No. 2006000416405 and temporary access, construction, and utility purposes per Inst. No. 2006000416404, both of Official Records of Orange County, CA and lying within Irvine Planning Area 40.

BACKGROUND:

Irvine Community Development Company (“ICDC”) is in the process of developing the eastern section of Irvine Planning Area 40. Lying within the proposed development area is an IRWD easement for Well 111 which was acquired from The Irvine Company in 2006 along with other former agriculture well sites as part of the First Amended and Restated Agreement for the Irvine Sub-Basin. The well site and a temporary access, construction and utility easements were granted to IRWD per Instrument Nos. 2006000416404 and 2006000416405, both of Official Records of Orange County, CA. ICDC has requested that IRWD review the necessity of the easements and if no longer needed, quitclaim both to clear title. ICDC will be responsible for the abandonment of the existing well within the easement. The current ownership of the land belongs to The Irvine Land Company LLC, a division of The Irvine Company. Staff has reviewed the request and concurs that the easements are in an area unsuitable for potable water production and are not needed as part of the long term plans for water production or the current basin clean-up under the former Marine Corp Air Station El Toro and recommends that the Board approve the quitclaim request. The Resolution authorizing the quitclaim is attached as Exhibit “A”, the Easement Quitclaim Deed is attached as Exhibit “B”, and a map showing the location of the quitclaim areas is attached as Exhibit “C”.

FISCAL IMPACT:

None.

ENVIRONMENTAL COMPLIANCE:

This project is not subject to the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15061 (b) (3), in that CEQA applies only to projects that may result in a direct physical change in the environment or reasonably foreseeable indirect physical change in the environment.

COMMITTEE REVIEW:

Quitclaims are not routinely taken to Committee prior to submittal for Board approval.

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2014 - _

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT
APPROVING EXECUTION OF THE QUITCLAIM DEED TO
THE IRVINE LAND COMPANY LLC

LIST OF EXHIBITS:

- Exhibit "A" – Resolution
- Exhibit "B" – Easement Quitclaim Deed
- Exhibit "C" – Location Map

EXHIBIT "A"

RESOLUTION NO. 2014 -

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT
APPROVING EXECUTION OF THE QUITCLAIM DEED TO
THE IRVINE LAND COMPANY LLC

WHEREAS, Irvine Community Development Company LLC ("ICDC") on behalf of the landowner The Irvine Land Company LLC has requested that the Irvine Ranch Water District Board approve the quitclaim of the existing easements for water well purposes and temporary access, construction and utility purposes for Well 111 per deeds recorded June 21, 2006 as Instrument Nos. 2006000416404 and 2006000416405, both of Official Records of Orange County, California; and

WHEREAS, the purpose of the quitclaim is because ICDC is beginning to develop the eastern portion of Planning Area 40 where Well 111 lies and wishes to clear title; and

WHEREAS, staff has reviewed and confirmed that the easements herein referred are no longer needed and can be quitclaimed; and

WHEREAS, the proposed quitclaim has been presented to this Board of Directors, copy of which is attached hereto as Exhibit "B".

NOW, THEREFORE, BE IT RESOLVED, the Quitclaim Deed attached hereto as Exhibit "B" to The Irvine Land Company LLC, a Delaware limited liability company, herein described and hereby is approved and execution by the District's officers is authorized.

ADOPTED, SIGNED and APPROVED this 27th day of May 2014.

President/Vice President
IRVINE RANCH WATER DISTRICT
and of the Board of Directors thereof

Secretary/Assistant Secretary
IRVINE RANCH WATER DISTRICT
and of the Board of Directors thereof

APPROVED AS TO FORM:
BOWIE, ARNESON, WILES & GIANNONE
IRWD Legal Counsel

By _____

EXHIBIT "B"

RECORDING REQUESTED BY AND WHEN RECORDED RETURN TO:

The Irvine Land Company LLC
550 Newport Center Drive
Newport Beach, CA 92660
Attn: General Counsel's Office

ASSESSOR PARCEL NO(S):

104-584-28 and 38

(Space Above This Line For Recorder's Use)

IRWD Doc. No. E _____
IRWD Res. No. _____

DOCUMENTARY TRANSFER TAX \$ consideration less than \$100
_____ Computed on the consideration or value of property conveyed; OR
_____ Computed on the consideration or value less liens or encumbrances
remaining at time of sale.

Signature or Declarant or Agent determining tax – Firm Name

EASEMENT QUITCLAIM DEED

FOR VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, IRVINE RANCH WATER DISTRICT, a California Water District organized under and existing pursuant to Section 34000 *et seq.* of the California Water Code, does hereby REMISE, RELEASE, AND FOREVER QUITCLAIM to THE IRVINE LAND COMPANY LLC, a Delaware limited liability company, or the current owner of record,

all RIGHT, TITLE and INTEREST in the real property located in the City of Irvine, County of Orange, State of California, as more particularly described in Exhibit "A", attached hereto and by this reference, made a part hereof.

The rights hereby quitclaimed are not necessary or useful in the performance of the duties of said Irvine Ranch Water District.

Dated: _____, 2014

IRVINE RANCH WATER DISTRICT,
a California Water District

By: _____
Name: Steven E. LaMar
Title: President

By: _____
Name: Leslie Bonkowski
Title: District Secretary

MAIL TAX STATEMENTS TO THE ABOVE ADDRESS

STATE OF CALIFORNIA)
)
COUNTY OF ORANGE)

On _____, 2014, before me, _____, a Notary Public in and for said State, personally appeared Steven E. LaMar and Leslie Bonkowski, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (SEAL)
Notary Public in and for said State

EXHIBIT "A"

***QUITCLAIM OF WELL 111 EASEMENTS
TO THE IRVINE LAND COMPANY LLC
(104-584-28 AND 38)***

LEGAL DESCRIPTION

Those certain of parcels of land situated in the City of Irvine, County of Orange, State of California being that portion of Block 122 of Irvine's Subdivision as shown on a map thereof filed in Book 1, Page 88 of Miscellaneous Record Maps in the Office of the County Recorder of said County being all of the land described in the Temporary Grant of Easement to Irvine Ranch Water District recorded June 21, 2006 as Instrument No. 2006000416404 and the Grant of Easement to Irvine Ranch Water District recorded June 21, 2006 as Instrument No. 2006000416405, both of Official Records in said Office of the County Recorder.

SUBJECT TO: Covenants, conditions, reservations, restrictions, rights-of-way, and easements of record, if any.

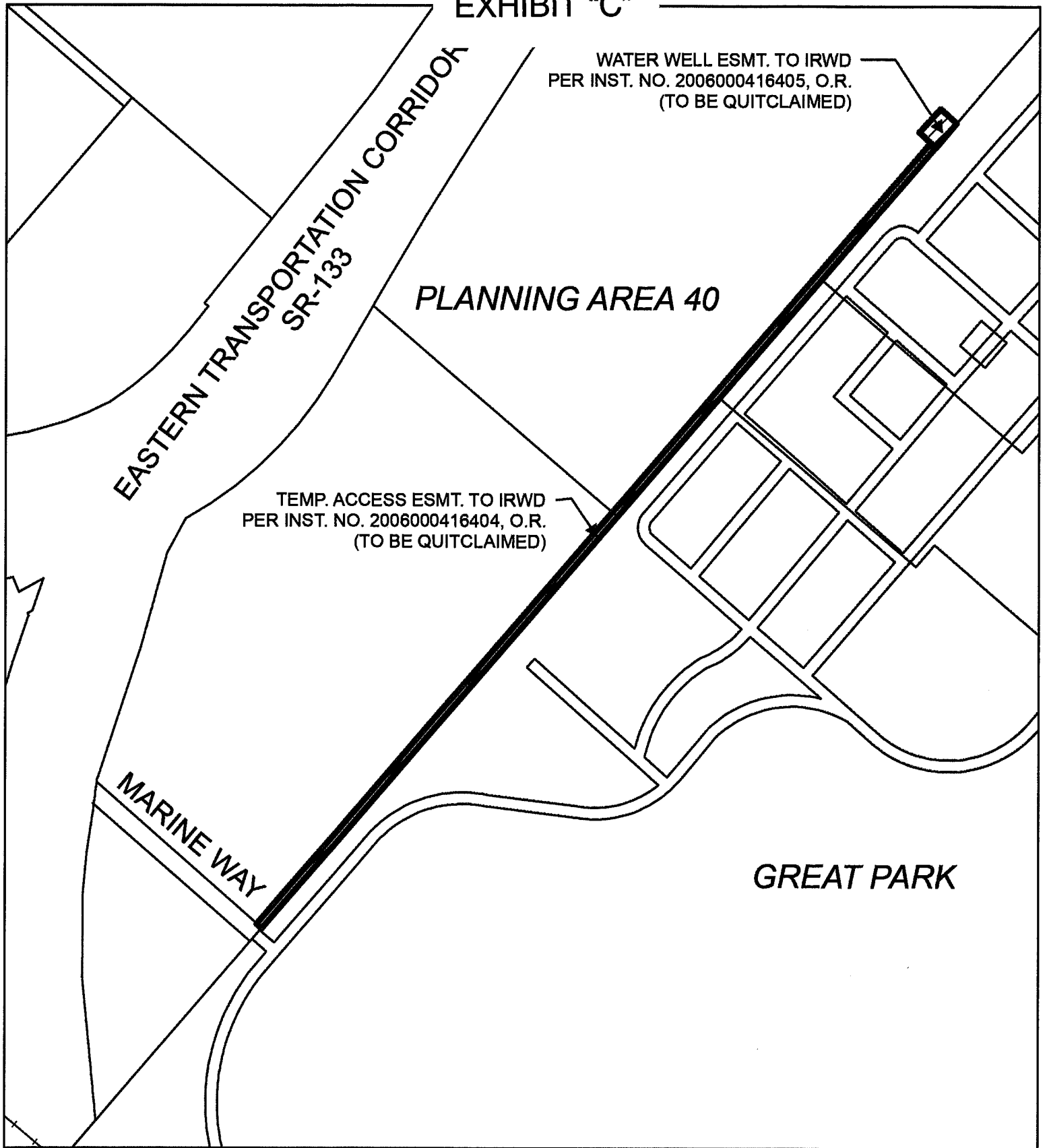
Prepared by me or under my direction:

Dated: May 12, 2014



Steven L. Malloy, R.C.E. 31926
License expires December 31, 2014

EXHIBIT "C"



**QUITLAIM OF WELL 111 EASEMENTS
TO THE IRVINE LAND COMPANY LLC**

N



DS
May 27, 2014
Prepared by: R. Thatcher/M. Hoolihan
Submitted by: K. Burton
Approved by: Paul Cook

CONSENT CALENDAR

QUITCLAIM DEED OF REAL PROPERTY
TO EL TORO WATER DISTRICT

SUMMARY:

Staff recommends that the Board adopt a resolution approving the execution of a quitclaim deed to El Toro Water District (ETWD) quitclaiming:

- The El Toro Road Pump Station site and access easement per deed to Los Alisos Water District recorded May 15, 1973 in Book 10697, Page 58 of Official Records;
- The easements for waterline purposes reserved on the map of Tract No. 8076 filed in Book 322, Pages 27 through 29 of Miscellaneous Maps, located near the most westerly corner of Lot 1 of said tract and granted to Los Alisos Water District per Grant of Easement recorded May 15, 1973 in Book 10697, Page 62 of Official Records, all in the Office of the County Recorder of Orange County, California;
- The existing interconnection between IRWD's Lake Forest Zone 1 distribution system and ETWD's Zone R-6 distribution system located on 2nd Street in Lake Forest; and
- An existing fire hydrant, along with an 8-inch pipeline connected to the hydrant.

BACKGROUND:

IRWD and ETWD, along with other parties, have entered into an agreement entitled "Agreement For Construction, Operation and Maintenance of Baker Water Treatment Plant" which provides for the development of the Baker Water Treatment Plant. As a part of that agreement, IRWD and ETWD entered into a separate agreement December 16, 2013 entitled "Agreement between El Toro Water District and Irvine Ranch Water District providing for Domestic Water Interconnection" with regards to interconnection delivery of water between the two parties. As part of the agreement, IRWD agreed to quitclaim 1) the El Toro Road Pump Station site and access easement per deed to Los Alisos Water District recorded May 15, 1973 in Book 10697, Page 58 of Official Records, 2) the easements for waterline purposes reserved on the map of Tract No. 8076 filed in Book 322, Pages 27 through 29 of Miscellaneous Maps, located near the most westerly corner of Lot 1 of said tract and granted to Los Alisos Water District per Grant of Easement recorded May 15, 1973 in Book 10697, Page 62 of Official Records, all in the Office of the County Recorder of Orange County, California, 3) the existing interconnection between IRWD's Lake Forest Zone 1 distribution system and ETWD's Zone R-6 distribution system located on 2nd Street in Lake Forest, and 4) an existing fire hydrant, along with an 8-inch pipeline connected to the hydrant. Staff has reviewed the agreement and recommends that the Board approve the quitclaim request. The Resolution authorizing the quitclaim is attached as Exhibit "A", the Quitclaim Deed is attached as Exhibit "B", and a map showing the location of the quitclaim areas is attached as Exhibit "C".

FISCAL IMPACT:

None.

ENVIRONMENTAL COMPLIANCE:

This project is not subject to the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15061 (b) (3), in that CEQA applies only to projects that may result in a direct physical change in the environment or reasonably foreseeable indirect physical change in the environment.

COMMITTEE REVIEW:

Quitclaims are not routinely taken to Committee prior to submittal for Board approval.

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2014 - _____

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT
APPROVING EXECUTION OF THE QUITCLAIM DEED TO
EL TORO WATER DISTRICT

LIST OF EXHIBITS:

- Exhibit "A" – Resolution
- Exhibit "B" – Quitclaim Deed
- Exhibit "C" – Location Map

EXHIBIT "A"

RESOLUTION NO. 2014 -

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT
APPROVING EXECUTION OF THE QUITCLAIM DEED TO
EL TORO WATER DISTRICT

WHEREAS, El Toro Water District, IRWD and other parties have entered into an agreement entitled "Agreement For Construction, Operation and Maintenance of Baker Water Treatment Plant" ("Baker WTP Agreement"); and

WHEREAS, the Baker WTP Agreement recognizes that ETWD can be provided product water from the Baker Water Treatment Plant via delivery through an interconnection between IRWD and ETWD; and

WHEREAS, ETWD and IRWD have entered into a separate agreement entitled "Agreement between El Toro Water District and Irvine Ranch Water District Providing for Domestic Water Interconnection" ("Interconnection Agreement"); and

WHEREAS, per Section 2.1 of the Interconnection Agreement, IRWD shall quitclaim to ETWD, at no cost (i) the existing interconnection located near the intersection of El Toro Road and 2nd Street, between IRWD' Lake Forest Zone 1 distribution system and ETWD's Zone R-6 distribution system; (ii) the existing 10-inch pipeline and meter; (iii) the site on which the facilities described in (ii) are located, consisting of the property and easement for ingress and egress granted to IRWD's predecessor in interest, Los Alisos Water District ("LAWD"), by instrument recorded May 15, 1973 in Book 10697, Page 58 and a portion of easements for water and sewer transmission granted to LAWD per instrument recorded May 15, 1973 in Book 10697, Page 62, both of Official Records of Orange County, California; and (iv) an existing fire hydrant at the end of Front Street and a portion of IRWD's existing 8-inch pipeline that delivers flow to the existing fire hydrant; and

WHEREAS, the proposed quitclaim has been presented to this Board of Directors, copy of which is attached hereto as Exhibit "B".

NOW, THEREFORE, BE IT RESOLVED, the Quitclaim Deed attached hereto as Exhibit "B" to EL TORO WATER DISTRICT, a California Water District organized under and existing pursuant to Section 34000 *et seq.* of the California Water Code, herein described and hereby is approved and execution by the District's officers is authorized.

ADOPTED, SIGNED and APPROVED this 27th day of May 2014.

President/Vice President
IRVINE RANCH WATER DISTRICT
and of the Board of Directors thereof

Secretary/Assistant Secretary
IRVINE RANCH WATER DISTRICT
and of the Board of Directors thereof

APPROVED AS TO FORM:
BOWIE, ARNESON, WILES & GIANNONE
IRWD Legal Counsel

By _____

EXHIBIT "B"

**RECORDING REQUESTED BY AND
WHEN RECORDED RETURN TO:**

El Toro Water District
24251 Los Alisos Blvd.
Lake Forest, CA 92630
Attn:

ASSESSOR PARCEL NO.(S):

(Space Above This Line For Recorder's Use)

IRWD Doc. No. E _____

IRWD Res. No. _____

This document is recorded at the request of and for the benefit of El Toro Water District and is therefore exempt from the payment of the recording fee pursuant to Government Code Section 6103 and from the payment of the documentary transfer tax pursuant to Revenue and Taxation Code Section 11922.

QUITCLAIM DEED

FOR VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, IRVINE RANCH WATER DISTRICT, a California Water District organized under and existing pursuant to Section 34000 *et seq.* of the California Water Code, does hereby REMISE, RELEASE, AND FOREVER QUITCLAIM to EL TORO WATER DISTRICT, a California Water District organized under and existing pursuant to Section 34000 *et seq.* of the California Water Code,

all RIGHT, TITLE and INTEREST in the real property located in the City of Lake Forest, County of Orange, State of California, as more particularly described on Exhibit "A" and depicted on Exhibit "B", attached hereto and by this reference mad a part hereof.

The rights hereby quitclaimed are to clear title for the benefit of Irvine Ranch Water District.

Dated: _____, 2014

IRVINE RANCH WATER DISTRICT,
a California Water District

By: _____

Name: Steven E. LaMar
Title: President

By: _____

Name: Leslie Bonkowski
Title: District Secretary

MAIL TAX STATEMENTS TO THE ABOVE ADDRESS

STATE OF CALIFORNIA)
)
COUNTY OF ORANGE)

On _____, 2014, before me, _____, a Notary Public in and for said State, personally appeared Steven E. LaMar and Leslie Bonkowski, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (SEAL)
Notary Public in and for said State

EXHIBIT "A"

**QUITCLAIM OF EL TORO ROAD PUMP STATION
AND OTHER FACILITIES TO EL TORO WATER DISTRICT**

LEGAL DESCRIPTION

El Toro Road Pump Station:

That certain parcel of land situated in the City of Lake Forest, County of Orange, State of California being that portion of Lot 1 of Tract No. 8076 as shown on a map thereof filed in Book 322, Pages 27 through 29 of Miscellaneous Maps in the Office of the County Recorder of said County being Parcel One as described in that certain Corporation Grant Deed to Los Alisos Water District recorded May 15, 1973 in Book 10697, Page 58 of Official Records in said Office of the County Recorder.

Access Easement within Lot 1 of Tract 8076:

That certain parcel of land situated in the City of Lake Forest, County of Orange, State of California being that portion of Lot 1 of Tract No. 8076 as shown on a map thereof filed in Book 322, Pages 27 through 29 of Miscellaneous Maps in the Office of the County Recorder of said County being Parcel Two as described in that certain Corporation Grant Deed to Los Alisos Water District recorded May 15, 1973 in Book 10697, Page 58 of Official Records in said Office of the County Recorder.

Water Line Easements:

Those certain parcels of land situated in the City of Lake Forest, County of Orange, State of California being that portion of Lot 1 of Tract No. 8076 as shown on a map thereof filed in Book 322, Pages 27 through 29 of Miscellaneous Maps in the Office of the County Recorder of said County being those two certain easements reserved for water line purposes located near the most westerly corner of said Lot 1 on the map of said tract and being also a portion of Parcel "B" as described in that certain Grant of Easement to Los Alisos Water District recorded May 15, 1973 in Book 10697, Page 62 of Official Records in said Office of the County Recorder.

Interconnection, pipeline and other facilities:

All of the IRWD owned facilities located within the above described real property together with a ten inch diameter pipeline and meter located within the 2nd Street right of way extending from the above described pump station southeasterly to Cherry Avenue.

Fire Hydrant:

An existing IRWD fire hydrant and eight inch diameter pipeline providing flow to the hydrant located near the northeast corner of the intersection of El Toro Road and Front Street and shown as fire hydrant 63 on the Sheet 205E of the 2014 IRWD Potable Water Atlas.

SUBJECT TO: Covenants, conditions, reservations, restrictions, rights-of-way, and easements of

record, if any.

EXHIBIT "B" attached hereto and by this reference made a part hereof.

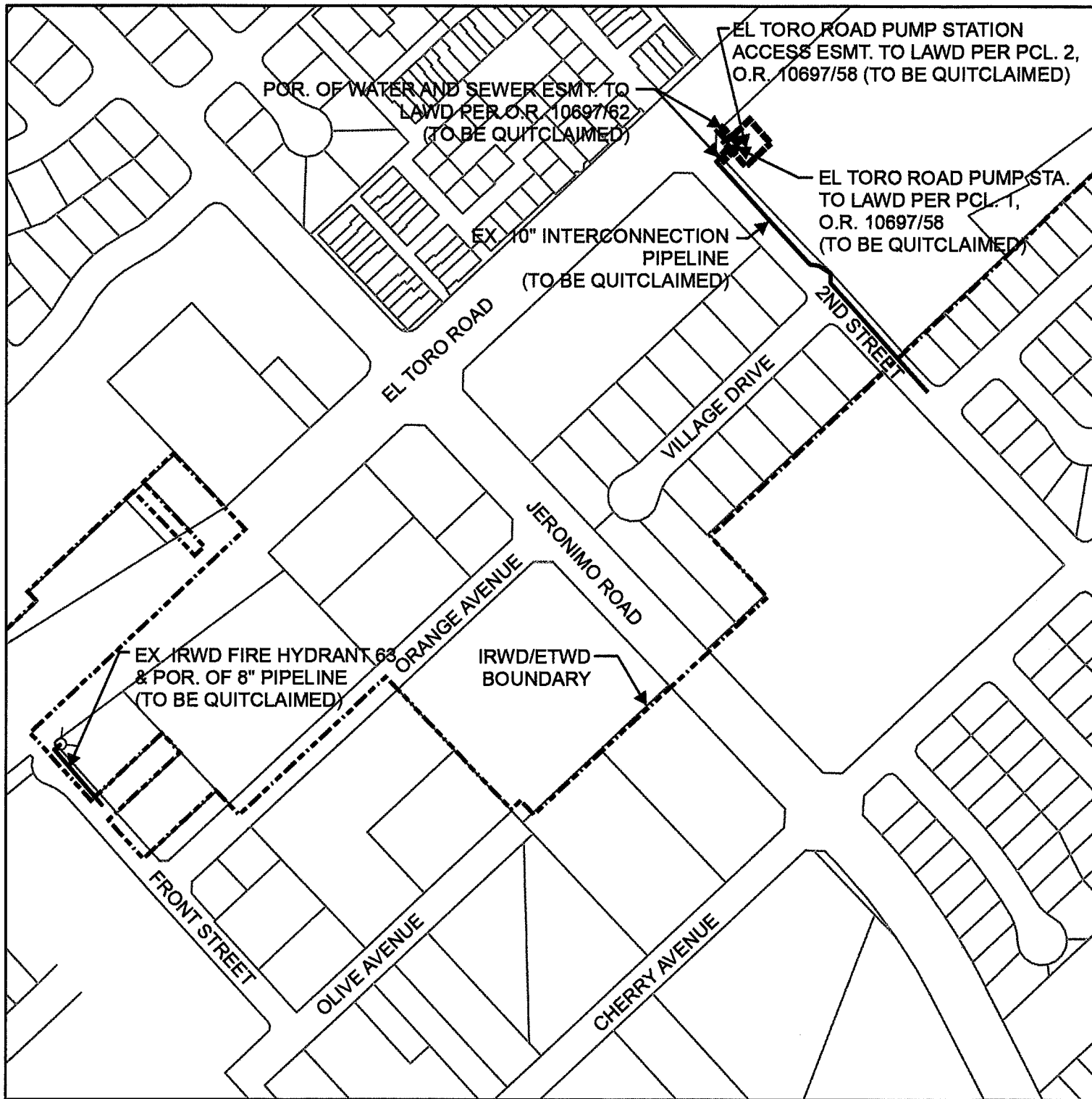
Prepared by me or under my direction:

Dated: May 14, 2014



Steven L. Malloy, R.C.E. 31926
License expires December 31, 2014

EXHIBIT "C" LOCATION MAP



**QUITCLAIM OF EL TORO ROAD PUMP STATION, PIPELINES &
REAL PROPERTY TO EL TORO WATER DISTRICT**



OS
May 27, 2014
Prepared by: A. Murphy/M. Cortez
Submitted by: K. Burton *(initials)*
Approved by: Paul Cook *(signature)*

CONSENT CALENDAR

INITIAL DISINFECTION FACILITY CHLORINE INJECTION LINE REPLACEMENT
FINAL ACCEPTANCE

SUMMARY:

The Initial Disinfection Facility Chlorine Injection Line Replacement Project is complete. The contractor, GCI Construction, Inc., has completed the required work and all punch list items. The project has received final inspection and acceptance of construction is recommended.

BACKGROUND:

The Initial Disinfection Facility located near Susan Street and Warner Avenue in Santa Ana has been out of service since November 2012 due to a series of leaks and blow outs of the existing 4-inch schedule 80 CPVC chlorine solution line. The scope of the project included construction of a new chlorine injection manhole within the IDF parking lot, a hastelloy chlorine injection line, and approximately 900 feet of 24-inch concrete mortar lined and coated steel pipeline to convey the chlorinated water to the distribution system.

Design began in March 2013 and GCI was awarded the construction contract on September 25, 2013. GCI finished construction of the project in April 2014, approximately six weeks ahead of the contract completion date of May 23, 2014. The facility was brought back on line on May 19, 2014.

Project Title:	Initial Disinfection Facility Chlorine Line Replacement
Project No.:	11669 (4285)
Design Engineer:	Tetra Tech
Construction Management by:	IRWD Staff
Contractor:	GCI Construction, Inc.
Original Contract Cost:	\$1,073,250.00
Final Contract Cost:	\$1,087,178.90
Original Contract Days:	240
Final Contract Days:	242
Final Change Order Approved On:	May 12, 2014

FISCAL IMPACTS:

Project 11669 (4285) is included in the FY 2013-14 Capital Budget. The existing budget and Expenditure Authorization are sufficient to fund the final payment for the project.

ENVIRONMENTAL COMPLIANCE:

This project is exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations Title 14, Chapter 3, Article 7, Section 15302, which states that replacement or reconstruction of existing structures and facilities where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced including but not limited to: (b) replacement of a commercial structure with a new structure of substantially the same size, purpose and capacity; and (c) replacement of or reconstruction of existing utility systems and/or facilities involving negligible or no expansion of capacity. A Notice of Exemption was filed with the Orange County Clerk on February 13, 2013.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD ACCEPT CONSTRUCTION OF THE INITIAL DISINFECTION FACILITY CHLORINE LINE REPLACEMENT, PROJECT 11669 (4285); AUTHORIZE THE GENERAL MANAGER TO FILE A NOTICE OF COMPLETION; AND AUTHORIZE THE PAYMENT OF THE RETENTION 35 DAYS AFTER THE DATE OF RECORDING THE NOTICE OF COMPLETION.

LIST OF EXHIBITS:

None.

08
May 27, 2014
Prepared by: H. Cho/M. Cortez
Submitted by: K. Burton (K.B.)
Approved by: Paul Cook [Signature]

CONSENT CALENDAR

VALVE VAULT AND LID REPLACEMENT
FINAL ACCEPTANCE

SUMMARY:

The Valve Vault and Lid Replacement Project is complete. The contractor, Paulus Engineering, completed the required work and all punch list items. The project has received final inspection and acceptance of construction is recommended.

BACKGROUND:

The Valve Vault and Lid Replacement Project replaced three valve vaults and four vault lids in Irvine and Santiago Canyon. The design was completed in May 2013. Paulus was awarded the construction contract on June 24, 2013 and completed construction in April 2014.

Project Title:	Valve Vault and Lid Replacement
Project No.:	11358 (1800)
Design Engineer:	Arcadis-US
Construction Management by:	IRWD Staff
Contractor:	Paulus Engineering
Original Contract Cost:	\$211,575.00
Final Contract Cost:	\$218,135.41
Original Contract Days:	120
Final Contract Days:	304
Final Change Order Approved On:	April 7, 2014

FISCAL IMPACTS:

Project 11358 (1800) is included in the FY 2013-14 Capital Budget. The existing budget and Expenditure Authorization are sufficient to fund the final payment for the project.

ENVIRONMENTAL COMPLIANCE:

This project is exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15301 which provides exemption for minor alterations of existing public or private structures, facilities, mechanical

equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination. A Notice of Exemption for the project was filed on May 23, 2013.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD ACCEPT CONSTRUCTION OF THE VALVE VAULT AND LID REPLACEMENT, PROJECT 11358 (1800); AUTHORIZE THE GENERAL MANAGER TO FILE A NOTICE OF COMPLETION; AND AUTHORIZE THE PAYMENT OF THE RETENTION 35 DAYS AFTER THE DATE OF RECORDING THE NOTICE OF COMPLETION.

LIST OF EXHIBITS:

None.

DS
May 27, 2014
Prepared by: K. Lew/M. Cortez
Submitted by: K. Burton
Approved by: Paul Cook

CONSENT CALENDAR

PLANNING AREA 51 HERITAGE FIELDS DISTRICT 1 CAPITAL FACILITIES

SUMMARY:

Heritage Fields El Toro, LLC (Heritage Fields) is currently proceeding with its District 1 development within Planning Area (PA) 51 (Great Park), which includes the construction of streets, storm drains, domestic water, sewer, and recycled water improvements. As part of the development, Heritage Fields will construct IRWD's capital facilities under an existing Supplemental Reimbursement Agreement. Staff recommends that the Board:

- Authorize the addition of Projects 11719, 31719, 21156, 31156, 21158, 11721, 31721, 21159, 31159, and 21165 to the FY 2013-14 Capital Budget in the amounts of \$172,700, \$105,600, \$255,200, \$78,100, \$403,700, \$161,700, \$266,200, \$310,200, \$321,200, and \$370,700, respectively;
- Authorize a budget increase in the amount of \$902,000 from \$162,800 to \$1,064,800 for Project 21141; and
- Approve Expenditure Authorizations for Projects 21141, 11719, 31719, 21156, 31156, 21158, 11721, 31721, 21159, 31159, and 21165 in the amounts of \$1,064,800, \$172,700, \$105,600, \$255,200, \$78,100, \$403,700, \$161,700, \$266,200, \$310,200, \$321,200, and \$370,700, respectively, for the Planning Area 51 Capital Facilities.

BACKGROUND:

Heritage Fields is moving forward with its District 1 development within PA 51. District 1 is bound by Irvine Boulevard to the north, the State Route 133 to the west, Marine Way to the south, and the Great Park to the East. The project location map is shown as Exhibit "A". As part of this development, Heritage Fields will design and construct IRWD's domestic water, sewer, and recycled water capital improvements. The required IRWD capital facilities are documented in the PA 31 and 51 Sub-Area Master Plan Update, as prepared by RBF Consulting in September 2011.

The design and construction of the IRWD facilities will be performed under the terms of an existing Master Reimbursement Agreement between Heritage Fields and IRWD dated August 13, 2012, and as further defined in an existing Supplemental Reimbursement Agreement dated March 10, 2014. Heritage Fields has divided the capital improvement plans to facilitate their development schedule. This current request includes six construction contracts as described in the following sections. Staff will present the remaining District 1 construction contracts to the Board in June 2014.

Reach A Sewer, O Street from Marine Way to Trabuco Road:

The Reach A Sewer consists of approximately 4,000 linear feet of 12-inch diameter sewer. Heritage Fields retained Hunsaker & Associates (Hunsaker) to prepare the Reach A Sewer improvement plans and they received bids from four contractors. Heritage Fields recommends awarding the construction contract to the lowest bidder, Leatherwood Construction (Leatherwood), with a bid amount of \$655,982.98 as shown in Exhibit "B". In addition, Heritage Fields has received consultant proposals for geotechnical observation and testing, surveying, construction support services, and field archeological/paleontological monitoring. Staff has reviewed the consultant proposals and the construction bids and found the amounts to be acceptable. A summary of the Reach A Sewer capital improvement costs is shown below.

Design (Hunsaker)	\$ 51,860.00
Construction (Leatherwood)	\$655,982.98
Geotechnical Services (Engeo)	\$ 55,500.00
Construction Engineering/Surveying (Hunsaker)	\$ 24,950.00
Field Archeo/Paleo Monitoring (LSA)	\$ 13,035.00
Heritage Fields Administration Fee (1%)	<u>\$ 6,559.82</u>
	\$807,887.80

LN Street from C Street to LY Street:

The LN Street capital facilities consist of approximately 1,000 linear feet of 12-inch diameter domestic water pipeline and 1,000 linear feet of 6-inch recycled water pipeline. Heritage Fields retained Hunsaker to prepare the LN Street improvement plans and they received bids from four contractors. Heritage Fields recommends awarding the construction contract to the lowest bidder, FYDAQ, for a bid amount of \$106,448.00 as shown in Exhibit "C". In addition, Heritage Fields has received consultant proposals for geotechnical observation and testing, surveying, construction support services, and field archeological/paleontological monitoring. Staff has reviewed the consultant proposals and the construction bids and found the amounts to be acceptable. A summary of the LN Street capital improvement costs is shown below.

Design (Hunsaker) O Street to LY Street	\$ 33,340.00
Geotechnical Design (Engeo)	\$ 2,000.00
Construction (FYDAQ)	\$106,448.00
Geotechnical Services (Engeo)	\$ 34,300.00
Construction Engineering/Surveying (Hunsaker)	\$ 19,750.00
Field Archeo/Paleo Monitoring (LSA)	\$ 3,690.00
Heritage Fields Administration Fee (1%)	<u>\$ 1,064.48</u>
	\$200,592.48

LQ Street from Ridge Valley to LY Street:

The LQ Street capital facilities consist of approximately 900 linear feet of 18-inch diameter sewer and 700 linear feet of 6-inch recycled water pipeline. Heritage Fields retained Hunsaker to prepare the LQ Street improvement plans and they received bids from four contractors. Heritage Fields recommends awarding the construction contract to the lowest bidder, FYDAQ, for a bid

amount of \$147,049 as shown in Exhibit “D”. In addition, Heritage Fields has received consultant proposals for geotechnical observation and testing, surveying, construction support services, and field archeological/paleontological monitoring. Staff has reviewed the consultant proposals and the construction bids and found the amounts to be acceptable. A summary of the LQ Street capital improvement costs is shown below.

Design (Hunsaker)	\$ 32,050.00
Geotechnical Design (Engeo)	\$ 2,000.00
Construction (FYDAQ)	\$147,049.00
Geotechnical Services (Engeo)	\$ 34,300.00
Construction Engineering/Surveying (Hunsaker)	\$ 19,150.00
Field Archeo/Paleo Monitoring (LSA)	\$ 4,490.00
Heritage Fields Administration Fee (1%)	\$ 1,470.49
	<u>\$240,509.49</u>

C Street Segment 1 from Trabuco Road to LQ Street:

The C Street Segment 1 capital facilities consist of approximately 1,400 linear feet of 18-inch diameter sewer. Heritage Fields retained Hunsaker to prepare the C Street Segment 1 improvement plans and they received bids from four contractors. Heritage Fields recommends awarding the construction contract to the lowest bidder, Leatherwood, for a bid amount of \$200,818 as shown in Exhibit “E”. In addition, Heritage Fields has received consultant proposals for geotechnical observation and testing, surveying, construction support services, and field archeological/paleontological monitoring. Staff has reviewed the consultant proposals and the construction bids and found the amounts to be acceptable. A summary of the C Street Segment 1 capital improvement costs is shown below.

Design (Hunsaker)	\$ 29,980.00
Geotechnical Design (Engeo)	\$ 1,500.00
Construction (Leatherwood)	\$200,818.00
Geotechnical Services (Engeo)	\$ 26,400.00
Construction Engineering/Surveying (Hunsaker)	\$ 13,550.00
Field Archeo/Paleo Monitoring (LSA)	\$ 4,490.00
Heritage Fields Administration Fee (1%)	\$ 2,008.18
	<u>\$278,746.18</u>

C Street Segment 2 from Ridge Valley to LN Street:

The C Street Segment 2 capital facilities consist of approximately 1,400 linear feet of 12-inch diameter domestic water pipeline and 1,400 linear feet of 6-inch recycled water pipeline. Heritage Fields retained Hunsaker to prepare the C Street Segment 2 improvement plans and they received bids from four contractors. Heritage Fields recommends awarding the construction contract to the lowest bidder, FYDAQ, for a bid amount of \$193,087.50 as shown in Exhibit “F”. In addition, Heritage Fields has received consultant proposals for geotechnical observation and testing, surveying, construction support services, and field archeological/paleontological monitoring. Staff has reviewed the consultant proposals and the construction bids and found the

amounts to be acceptable. A summary of the C Street Segment 2 capital improvement costs is shown below.

Design (Hunsaker) O Street to LQ Street	\$ 38,160.00
Geotechnical Design (Engeo)	\$ 2,000.00
Construction (FYDAQ)	\$193,087.50
Geotechnical Services (Engeo)	\$ 34,300.00
Construction Engineering/Surveying (Hunsaker)	\$ 21,550.00
Field Archeo/Paleo Monitoring (LSA)	\$ 3,690.00
Heritage Fields Administration Fee (1%)	<u>\$ 1,930.88</u>
	\$294,718.38

LV Street from O Street to LY Street and C Street Segment 3 from Trabuco Road to LV Street:

The LV Street and C Street Segment 3 capital facilities consist of approximately 2,000 linear feet of 18-inch sewer and 2,000 linear feet of 12-inch recycled water pipeline. Heritage Fields retained Hunsaker to prepare the LV Street and C Street Segment 3 improvement plans and they received bids from four contractors. Heritage Fields recommends awarding the construction contract to the lowest bidder, Leatherwood, for bid amounts of \$310,507 and \$156,515 as shown in Exhibit "G". In addition, Heritage Fields has received consultant proposals for geotechnical observation and testing, surveying, construction support services, and field archeological/paleontological monitoring. Staff has reviewed the consultant proposals and the construction bids and found the amounts to be acceptable. A summary of the LV Street and C Street Segment 3 capital improvement costs is shown below.

Design (Hunsaker)	\$ 54,600.00
LV Street Construction (Leatherwood)	\$310,507.00
C Street Construction (Leatherwood)	\$156,515.00
Geotechnical Services (Engeo)	\$ 56,300.00
Construction Engineering/Surveying (Hunsaker)	\$ 29,300.00
Field Archeo/Paleo Monitoring (LSA)	\$ 11,780.00
Heritage Fields Administration Fee (1%)	<u>\$ 4,670.22</u>
	\$623,672.22

FISCAL IMPACTS:

Project 21141 (4267) is included in the FY 2013-14 Capital Budget. Projects 11719 (4620), 31719 (4621), 21156 (4648), 31156 (4649), 21158 (4653), 11721 (4645), 31721 (4646), 21159 (4824), 31159 (4825), and 21165 (5016) are not included in the FY 2013-14 Capital Budget and are requested to be added. Funding for IRWD's capital facilities will require the approval of 11 Expenditure Authorizations in the amount shown in the following table and in Exhibit "H".

Project No.	Current Budget	Addition <Reduction>	Total Budget	Existing EA	This EA Request	Total EA Request
21141 (4267)	\$162,800	\$ 902,000	\$1,064,800	\$-0-	\$1,064,800	\$1,064,800
11719 (4620)	\$ -0-	\$ 172,700	\$ 172,700	\$-0-	\$ 172,700	\$ 172,700
31719 (4621)	\$ -0-	\$ 105,600	\$ 105,600	\$-0-	\$ 105,600	\$ 105,600
21156 (4648)	\$ -0-	\$ 255,200	\$ 255,200	\$-0-	\$ 255,200	\$ 255,200
31156 (4649)	\$ -0-	\$ 78,100	\$ 78,100	\$-0-	\$ 78,100	\$ 78,100
21158 (4653)	\$ -0-	\$ 403,700	\$ 403,700	\$-0-	\$ 403,700	\$ 403,700
11721 (4645)	\$ -0-	\$ 161,700	\$ 161,700	\$-0-	\$ 161,700	\$ 161,700
31721 (4646)	\$ -0-	\$ 266,200	\$ 266,200	\$-0-	\$ 266,200	\$ 266,200
21159 (4824)	\$ -0-	\$ 310,200	\$ 310,200	\$-0-	\$ 310,200	\$ 310,200
31159 (4825)	\$ -0-	\$ 321,200	\$ 321,200	\$-0-	\$ 321,200	\$ 321,200
21165 (5016)	\$ -0-	\$ 370,700	\$ 370,700	\$-0-	\$ 370,700	\$ 370,700
TOTAL	\$162,800	\$3,347,300	\$3,510,100	\$-0-	\$3,510,100	\$3,510,100

The above funding provides for the reimbursement costs to Heritage Fields for the design and construction of IRWD capital facilities, staff time, and consultant support during construction.

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 May 20, 2014.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE ADDITION OF PROJECTS 11719 (4620), 31719 (4621), 21156 (4648), 31156 (4649), 21158 (4653), 11721 (4645), 31721 (4646), 21159 (4824), 31159 (4825), AND 21165 (5016) TO THE FY 2013-14 CAPITAL BUDGET IN THE AMOUNTS OF \$172,700, \$105,600, \$255,200, \$78,100, \$403,700, \$161,700, \$266,200, \$310,200, \$321,200, AND \$370,700, RESPECTIVELY; THE BOARD AUTHORIZE A BUDGET INCREASE IN THE AMOUNT OF \$902,000 FROM \$162,800 TO \$1,064,800 FOR PROJECT 21141 (4267); AND THE BOARD APPROVE EXPENDITURE AUTHORIZATIONS FOR PROJECTS 21141 (4267), 11719 (4620), 31719 (4621), 21156 (4648), 31156 (4649), 21158 (4653), 11721 (4645), 31721 (4646), 21159 (4824), 31159 (4825), AND 21165 (5016) IN THE AMOUNTS OF \$1,064,800, \$172,700, \$105,600, \$255,200, \$78,100, \$403,700, \$161,700, \$266,200, \$310,200, \$321,200, AND \$370,700, RESPECTIVELY, FOR THE PLANNING AREA 51 CAPITAL FACILITIES.

LIST OF EXHIBITS:

- Exhibit "A" – Location Map
- Exhibit "B" – Bid Summary, Reach A Sewer, O Street from Marine Way to Trabuco Road
- Exhibit "C" – Bid Summary, LN Street from C Street to LY Street
- Exhibit "D" – Bid Summary, LQ Street from Ridge Valley to LY Street
- Exhibit "E" – Bid Summary, C Street Segment 1 from Trabuco Road to LQ Street
- Exhibit "F" – Bid Summary, C Street Segment 2 from Ridge Valley to LN Street
- Exhibit "G" – Bid Summary, LV Street from O Street to LY Street and C Street Segment 3 from
Trabuco Road to LV Street
- Exhibit "H" – Expenditure Authorizations

EXHIBIT "B"

RIDGE VALLEY SEG 1 "REACH A" IRWD CODE 5872 CAPITAL IMPROVEMENTS BID SPREAD

Item	Description	Estimated		ENGINEER'S EST - H&A		LOW BID - LEATHERWOOD		L&S		KENNEDY		FYDAQ	
		Quantity	Unit	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
I. IRWD CAPITAL REACH A													
Construction Plans for the Irvine Ranch Water District, Planning Area 51, Great Park Neighborhoods, Capital Improvements, "O" Street (From Marina Way to Trabuco Road) Sanitary Sewer Pipelines, Project No. 21141 (4267), IRWD Code 5872													
A. GENERAL - IRWD CAPITAL - MILESTONE 1 - RV SEG 1 SS													
1.	MOBILIZATION (NOT TO EXCEED 2% OF CONTRACT PRICE OF SECTIONS A-C)	1	LS	\$ 5,400.00	\$ 5,400.00	\$ 5,500.00	\$ 5,500.00	\$ 7,800.00	\$ 7,800.00	\$ 5,200.00	\$ 5,200.00	\$ 3,000.00	\$ 3,000.00
2.	PAYMENT AND PERFORMANCE BONDS - (SECTIONS A-C)	1	LS	\$ 2,700.00	\$ 2,700.00	\$ 3,200.00	\$ 3,200.00	\$ 5,800.00	\$ 5,800.00	\$ 5,875.00	\$ 5,875.00	\$ 12,558.00	\$ 12,558.00
3.	STORM WATER POLLUTION PREVENTION PLAN & BMPs (SECTIONS A-C)	1	LS	\$ 4,320.00	\$ 4,320.00	\$ 5,000.00	\$ 5,000.00	\$ 8,500.00	\$ 8,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00
4.	DEVELOP CONSTRUCTION WATER (SECTIONS A-C)	1	LS	\$ 4,050.00	\$ 4,050.00	\$ 1,000.00	\$ 1,000.00	\$ 3,500.00	\$ 3,500.00	\$ 1,500.00	\$ 1,500.00	\$ 2,500.00	\$ 2,500.00
5.	TRAFFIC CONTROL & DAILY STREET SWEEPING (SECTIONS A-C)	1	LS	\$ 4,050.00	\$ 4,050.00	\$ 2,500.00	\$ 2,500.00	\$ 7,500.00	\$ 7,500.00	\$ 2,000.00	\$ 2,000.00	\$ -	\$ -
6.	WELL PROTECTION (K-RAIL AND SECURITY FENCING)	2	EA	\$ 1,000.00	\$ 2,000.00	\$ 1,650.00	\$ 3,300.00	\$ 4,000.00	\$ 8,000.00	\$ 5,500.00	\$ 11,000.00	\$ 7,500.00	\$ 15,000.00
7.	INSTALL TEMPORARY CONSTRUCTION / SECURITY FENCE	1,585	LF	\$ 8.00	\$ 12,880.00	\$ 8.00	\$ 12,680.00	\$ 2.00	\$ 3,170.00	\$ 30.00	\$ 47,550.00	\$ 50.00	\$ 79,250.00
8.	INSTALL TEMPORARY CONSTRUCTION / SECURITY GATE	3	EA	\$ 1,000.00	\$ 3,000.00	\$ 170.00	\$ 510.00	\$ 300.00	\$ 900.00	\$ 4,200.00	\$ 12,800.00	\$ 5,000.00	\$ 15,000.00
GENERAL - IRWD CAPITAL - SUBTOTAL (SECTION A)					\$ 38,200.00		\$ 33,690.00		\$ 44,970.00		\$ 88,025.00		\$ 129,608.00
B. DEMOLITION - IRWD CAPITAL - MILESTONE 1 - RV SEG 1 SS													
9.	SITE CLEARING AND GRUBBING (INCLUDES TREE REMOVAL)	4.6	AC	\$ 1,500.00	\$ 6,957.84	\$ 3,200.00	\$ 14,842.88	\$ 10,600.00	\$ 49,167.36	\$ 2,450.00	\$ 11,384.15	\$ 50,000.00	\$ 231,921.49
10.	REMOVE EXIST CHAIN LINK FENCE WITH BARBED WIRE	1,780	LF	\$ 4.50	\$ 7,920.00	\$ 8.00	\$ 10,560.00	\$ 4.00	\$ 7,040.00	\$ 35.00	\$ 61,600.00	\$ 50.00	\$ 88,000.00
11.	REMOVE EXIST PROPANE TANKS	2	EA	\$ 1,200.00	\$ 2,400.00	\$ 1,600.00	\$ 3,200.00	\$ 4,000.00	\$ 8,000.00	\$ 5,800.00	\$ 11,600.00	\$ 6,000.00	\$ 12,000.00
12.	REMOVE EXIST CONTAINER	1	EA	\$ 1,200.00	\$ 1,200.00	\$ 2,600.00	\$ 2,600.00	\$ 2,150.00	\$ 2,150.00	\$ 5,150.00	\$ 5,150.00	\$ 3,000.00	\$ 3,000.00
13.	REMOVE EXIST SEWER MANHOLE	1	EA	\$ 2,537.00	\$ 2,537.00	\$ 900.00	\$ 900.00	\$ 2,150.00	\$ 2,150.00	\$ 2,670.00	\$ 2,670.00	\$ 4,000.00	\$ 4,000.00
14.	REMOVE EXIST 8" SEWER	395	LF	\$ 13.90	\$ 5,490.50	\$ 18.00	\$ 7,110.00	\$ 30.00	\$ 11,850.00	\$ 75.00	\$ 29,625.00	\$ 30.00	\$ 11,850.00
15.	REMOVE EXIST ABANDONED ELECTRICAL POLE (5' MAX ABOVE GRADE)	3	EA	\$ 800.00	\$ 2,400.00	\$ 1,100.00	\$ 3,300.00	\$ 500.00	\$ 1,500.00	\$ 885.00	\$ 2,655.00	\$ 7,500.00	\$ 22,500.00
16.	CAP EXIST SEWER	1	EA	\$ 138.00	\$ 138.00	\$ 50.00	\$ 50.00	\$ 1,500.00	\$ 1,500.00	\$ 875.00	\$ 875.00	\$ 1,600.00	\$ 1,600.00
17.	REMOVE EXIST ABANDONED POWER POLE	8	EA	\$ 1,000.00	\$ 8,000.00	\$ 800.00	\$ 6,400.00	\$ 500.00	\$ 4,000.00	\$ 895.00	\$ 5,560.00	\$ 3,500.00	\$ 28,000.00
18.	REMOVE EXIST ABANDONED GUY WIRE	4	EA	\$ 500.00	\$ 2,000.00	\$ 250.00	\$ 1,000.00	\$ 200.00	\$ 800.00	\$ 465.00	\$ 1,860.00	\$ 5,000.00	\$ 20,000.00
19.	REMOVE EXIST ABANDONED STREET LIGHTS & POWER POLES	3	EA	\$ 1,200.00	\$ 3,600.00	\$ 1,100.00	\$ 3,300.00	\$ 500.00	\$ 1,500.00	\$ 950.00	\$ 2,850.00	\$ 1,000.00	\$ 3,000.00
20.	REMOVE EXIST ABANDONED ELECTRICAL EQUIPMENT (INCLUDING VAULTS)	2	EA	\$ 5,217.50	\$ 10,435.00	\$ 5,700.00	\$ 11,400.00	\$ 2,200.00	\$ 4,400.00	\$ 8,500.00	\$ 17,000.00	\$ 15,000.00	\$ 30,000.00
21.	REMOVE EXIST ABANDONED OVERHEAD ELECTRICAL LINES	1,840	LF	\$ 4.50	\$ 8,280.00	\$ 3.00	\$ 5,520.00	\$ 4.00	\$ 7,360.00	\$ 73.00	\$ 134,320.00	\$ 65.00	\$ 119,600.00
22.	RELOCATE EXIST OVERHEAD TELEPHONE LINES	1	LS	\$ 2,000.00	\$ 2,000.00	\$ 700.00	\$ 700.00	\$ 3,500.00	\$ 3,500.00	\$ 9,000.00	\$ 9,000.00	\$ 200,000.00	\$ 200,000.00
DEMOLITION - IRWD CAPITAL - SUBTOTAL (SECTION B)					\$ 63,359.14		\$ 70,882.88		\$ 104,917.36		\$ 296,229.15		\$ 775,371.49
C. SANITARY SEWER - IRWD CAPITAL - MILESTONE 1 - RV SEG 1 SS													
23.	CONSTRUCT 12" SDR35 PVC DEEP (>15 FT DEPTH) SEWER MAIN, BEDDING PER IRWD STD NO. S-6	300	LF	\$ 87.00	\$ 26,100.00	\$ 75.00	\$ 22,500.00	\$ 120.00	\$ 36,000.00	\$ 85.00	\$ 28,500.00	\$ 90.00	\$ 27,000.00
24.	CONSTRUCT 12" C900, DR14, PVC DEEP (>15 FT DEPTH) SEWER MAIN W/ SEWER INDICATOR TAPE & BEDDING PER IRWD STD NO. S-6	701	LF	\$ 97.00	\$ 67,997.00	\$ 90.00	\$ 63,080.00	\$ 180.00	\$ 112,160.00	\$ 135.00	\$ 84,635.00	\$ 110.00	\$ 77,110.00
25.	CONSTRUCT 12" C900, DR14, PVC DEEP (>20 FT DEPTH) SEWER MAIN W/ SEWER INDICATOR TAPE & BEDDING PER IRWD STD NO. S-6	526	LF	\$ 150.00	\$ 78,900.00	\$ 105.00	\$ 55,230.00	\$ 180.00	\$ 94,680.00	\$ 235.00	\$ 123,610.00	\$ 120.00	\$ 63,120.00
26.	CONSTRUCT 60" MANHOLE PER IRWD STD NO. S-1	3	EA	\$ 8,580.00	\$ 25,740.00	\$ 6,650.00	\$ 19,950.00	\$ 7,600.00	\$ 22,800.00	\$ 9,000.00	\$ 27,000.00	\$ 12,000.00	\$ 36,000.00
27.	CONSTRUCT 60" MANHOLE PER IRWD STD NO. S-1 W/ MODIFIED BASE PER DETAIL ON PLAN	1	EA	\$ 9,500.00	\$ 9,500.00	\$ 9,000.00	\$ 9,000.00	\$ 7,600.00	\$ 7,600.00	\$ 9,500.00	\$ 9,500.00	\$ 15,000.00	\$ 15,000.00
28.	REMOVE TEMPORARY 8" TERMINAL CLEANOUT & JOIN EXIST 12" PVC SEWER	1	EA	\$ 462.00	\$ 462.00	\$ 1,200.00	\$ 1,200.00	\$ 2,100.00	\$ 2,100.00	\$ 3,500.00	\$ 3,500.00	\$ 5,000.00	\$ 5,000.00
SANITARY SEWER - IRWD CAPITAL - SUBTOTAL (SECTION C)					\$ 208,696.00		\$ 170,970.00		\$ 275,340.00		\$ 286,745.00		\$ 223,230.00
SUBTOTAL IRWD CAPITAL PRICE - MILESTONE 1 (SECTIONS A-C)					\$ 310,258.14		\$ 275,542.98		\$ 425,227.38		\$ 670,999.15		\$ 1,128,406.49
D. GENERAL - IRWD CAPITAL - MILESTONE 2 - RV SEG 1 SS													
29.	MOBILIZATION (NOT TO EXCEED 2% OF CONTRACT PRICE SECTIONS D-F)	1	LS	\$ 8,900.00	\$ 8,900.00	\$ 6,400.00	\$ 6,400.00	\$ 11,000.00	\$ 11,000.00	\$ 9,300.00	\$ 9,300.00	\$ 3,000.00	\$ 3,000.00
30.	PAYMENT AND PERFORMANCE BONDS (SECTIONS D-F)	1	LS	\$ 4,450.00	\$ 4,450.00	\$ 4,200.00	\$ 4,200.00	\$ 9,500.00	\$ 9,500.00	\$ 991.00	\$ 991.00	\$ 6,889.00	\$ 6,889.00
31.	STORM WATER POLLUTION PREVENTION PLAN & BMPs (SECTIONS D-F)	1	LS	\$ 7,120.00	\$ 7,120.00	\$ 5,000.00	\$ 5,000.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00
32.	DEVELOP CONSTRUCTION WATER (SECTIONS D-F)	1	LS	\$ 6,675.00	\$ 6,675.00	\$ 1,000.00	\$ 1,000.00	\$ 1,250.00	\$ 1,250.00	\$ 1,500.00	\$ 1,500.00	\$ 2,500.00	\$ 2,500.00
33.	TRAFFIC CONTROL & DAILY STREET SWEEPING (SECTIONS D-F)	1	LS	\$ 6,675.00	\$ 6,675.00	\$ 2,000.00	\$ 2,000.00	\$ 1,850.00	\$ 1,850.00	\$ 2,000.00	\$ 2,000.00	\$ -	\$ -

CONTRACT PRICE SCHEDULE
 HERITAGE FIELDS - DISTRICT 1 - JOINT BACKBONE IMPROVEMENTS
 CITY OF IRVINE, ORANGE COUNTY, CALIFORNIA
 DISTRICT 1, GROUP 2, UNDERGROUND IMPROVEMENTS -
 IRWD CAPITAL IMPROVEMENTS - SANITARY SEWER - IRWD CODE 5872

**RIDGE VALLEY SEG 1 "REACH A" IRWD CODE 5872
 CAPITAL IMPROVEMENTS BID SPREAD**

Item Description	Estimated Quantity	Unit	ENGINEER'S EST - H&A		LOW BID - LEATHERWOOD		L&S		KENNEDY		FYDAQ	
			Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
GENERAL - IRWD CAPITAL - MILESTONE 2 - SUBTOTAL (SECTION D)				\$ 33,820.00		\$ 18,600.00		\$ 26,100.00		\$ 16,291.00		\$ 14,886.00
E. RECONSTRUCTION - IRWD CAPITAL - MILESTONE 2 - RV SEG I SS												
34. REMOVE AND REPLACE EXISTING CHAIN LINK FENCING	20 LF		\$ 10.00	\$ 200.00	\$ 50.00	\$ 1,000.00	\$ 45.00	\$ 900.00	\$ 15.00	\$ 300.00	\$ 60.00	\$ 1,200.00
35. REMOVE (SALVAGE) AND REPLACE EXISTING IRON ROD AND WIRE FENCE	20 LF		\$ 8.00	\$ 160.00	\$ 70.00	\$ 1,400.00	\$ 80.00	\$ 1,600.00	\$ 75.00	\$ 1,500.00	\$ 100.00	\$ 2,000.00
36. REMOVE AND REPLACE EXISTING CONC CHANNEL	20 LF		\$ 66.60	\$ 1,332.00	\$ 185.00	\$ 3,700.00	\$ 230.00	\$ 4,600.00	\$ 650.00	\$ 13,000.00	\$ 200.00	\$ 4,000.00
37. REMOVE AND REPLACE PORTION OF CONC CHANNEL TRANSITION STRUCTURE	1 EA		\$ 6,000.00	\$ 6,000.00	\$ 3,700.00	\$ 3,700.00	\$ 14,000.00	\$ 14,000.00	\$ 7,500.00	\$ 7,500.00	\$ 3,500.00	\$ 3,500.00
RECONSTRUCTION - IRWD CAPITAL - MILESTONE 2 - SUBTOTAL (SECTION E)				\$ 7,692.00		\$ 9,800.00		\$ 21,100.00		\$ 22,300.00		\$ 10,700.00
F. SANITARY SEWER - IRWD CAPITAL - MILESTONE 2 - RV SEG I SS												
38. CONSTRUCT 12" SDR35 PVC DEEP (>15 FT DEPTH) SEWER MAIN, BEDDING PER IRWD STD NO. S-6	588 LF		\$ 87.00	\$ 51,156.00	\$ 70.00	\$ 41,160.00	\$ 120.00	\$ 70,560.00	\$ 150.00	\$ 88,200.00	\$ 90.00	\$ 52,920.00
39. CONSTRUCT 12" C900, DR14, PVC DEEP (>15 FT DEPTH) SEWER MAIN W/ SEWER INDICATOR TAPE & BEDDING PER IRWD STD NO. S-6	81 LF		\$ 97.00	\$ 7,857.00	\$ 85.00	\$ 6,885.00	\$ 160.00	\$ 12,960.00	\$ 165.00	\$ 13,365.00	\$ 110.00	\$ 8,910.00
40. CONSTRUCT 12" C900, DR14, PVC DEEP (>20 FT DEPTH) SEWER MAIN W/ SEWER INDICATOR TAPE & BEDDING PER IRWD STD NO. S-6	1,893 LF		\$ 150.00	\$ 283,950.00	\$ 90.00	\$ 172,370.00	\$ 180.00	\$ 342,240.00	\$ 235.00	\$ 444,750.00	\$ 120.00	\$ 227,160.00
41. CONSTRUCT 12" C900, DR14, PVC DEEP (>25 FT DEPTH) SEWER MAIN W/ SEWER INDICATOR TAPE & BEDDING PER IRWD STD NO. S-6	152 LF		\$ 244.00	\$ 37,088.00	\$ 150.00	\$ 22,800.00	\$ 200.00	\$ 30,400.00	\$ 325.00	\$ 49,400.00	\$ 130.00	\$ 19,760.00
42. CONSTRUCT 60" MANHOLE PER IRWD STD NO. S-1	3 EA		\$ 6,580.00	\$ 19,740.00	\$ 6,500.00	\$ 19,500.00	\$ 7,600.00	\$ 22,800.00	\$ 9,000.00	\$ 27,000.00	\$ 12,000.00	\$ 36,000.00
43. CONSTRUCT 60" MANHOLE PER IRWD STD NO. S-1 W/ MODIFIED BASE PER DETAIL ON PLAN	2 EA		\$ 9,500.00	\$ 19,000.00	\$ 12,300.00	\$ 24,600.00	\$ 7,600.00	\$ 15,200.00	\$ 9,500.00	\$ 19,000.00	\$ 15,000.00	\$ 30,000.00
44. CONSTRUCT 72" MANHOLE PER IRWD STD NO. S-1 W/ MODIFIED BASE PER DETAIL ON PLAN	2 EA		\$ 12,480.00	\$ 24,960.00	\$ 23,400.00	\$ 46,800.00	\$ 16,900.00	\$ 33,800.00	\$ 15,000.00	\$ 30,000.00	\$ 25,000.00	\$ 50,000.00
45. REMOVE TEMPORARY 8" TERMINAL CLEANOUT & JOIN EXIST 12" PVC SEWER	1 EA		\$ 482.00	\$ 482.00	\$ 1,200.00	\$ 1,200.00	\$ 2,100.00	\$ 2,100.00	\$ 3,500.00	\$ 3,500.00	\$ 5,000.00	\$ 5,000.00
46. PROTECT EXISTING HIGH RISK FACILITY (68KV UG, 12KV UG AND AT&T UG)	1 LS		\$ 10,000.00	\$ 10,000.00	\$ 2,500.00	\$ 2,500.00	\$ 4,000.00	\$ 4,000.00	\$ 8,000.00	\$ 8,000.00	\$ 25,000.00	\$ 25,000.00
SANITARY SEWER - IRWD CAPITAL - MILESTONE 2 - SUBTOTAL (SECTION F)				\$ 439,733.00		\$ 330,115.00		\$ 504,180.00		\$ 645,820.00		\$ 445,760.00
SUBTOTAL PRICE - IRWD CAPITAL - MILESTONE 2 (SECTIONS D-F)				\$ 481,245.00		\$ 358,515.00		\$ 531,380.00		\$ 684,411.00		\$ 471,136.00
G. GENERAL - IRWD CAPITAL - MILESTONE 3 - RV SEG I SS												
47. MOBILIZATION (NOT TO EXCEED 2% OF CONTRACT PRICE SECTIONS G-I)	1 LS		\$ 200.00	\$ 200.00	\$ 400.00	\$ 400.00	\$ 1,440.00	\$ 1,440.00	\$ 200.00	\$ 200.00	\$ 3,000.00	\$ 3,000.00
48. PAYMENT AND PERFORMANCE BONDS (SECTIONS G-I)	1 LS		\$ 100.00	\$ 100.00	\$ 225.00	\$ 225.00	\$ 1,400.00	\$ 1,400.00	\$ 253.00	\$ 253.00	\$ 409.00	\$ 409.00
49. STORM WATER POLLUTION PREVENTION PLAN & BMPs (SECTIONS G-I)	1 LS		\$ 160.00	\$ 160.00	\$ 100.00	\$ 100.00	\$ 1,850.00	\$ 1,850.00	\$ 550.00	\$ 550.00	\$ 2,500.00	\$ 2,500.00
50. DEVELOP CONSTRUCTION WATER (SECTIONS G-I)	1 LS		\$ 150.00	\$ 150.00	\$ 100.00	\$ 100.00	\$ 850.00	\$ 850.00	\$ 650.00	\$ 650.00	\$ 2,500.00	\$ 2,500.00
51. TRAFFIC CONTROL & DAILY STREET SWEEPING (SECTIONS G-I)	1 LS		\$ 150.00	\$ 150.00	\$ 500.00	\$ 500.00	\$ 1,750.00	\$ 1,750.00	\$ 1,400.00	\$ 1,400.00	\$ -	\$ -
GENERAL - IRWD CAPITAL - MILESTONE 3 - SUBTOTAL (SECTION G)				\$ 760.00		\$ 1,325.00		\$ 7,290.00		\$ 3,053.00		\$ 8,409.00
H. RECONSTRUCTION - IRWD CAPITAL - MILESTONE 3 - RV SEG I SS												
52. RAISE MANHOLES TO FINAL GRADE	12 EA		\$ 500.00	\$ 6,000.00	\$ 550.00	\$ 6,600.00	\$ 550.00	\$ 6,600.00	\$ 550.00	\$ 6,600.00	\$ 450.00	\$ 5,400.00
53. ALL ELSE REQUIRED TO FINALIZE SANITARY SEWER FOR IRWD ACCEPTANCE	1 LS		\$ 2,000.00	\$ 2,000.00	\$ 14,000.00	\$ 14,000.00	\$ 6,000.00	\$ 6,000.00	\$ 7,500.00	\$ 7,500.00	\$ 15,000.00	\$ 15,000.00
SANITARY SEWER - IRWD CAPITAL - MILESTONE 3 - SUBTOTAL (SECTION H)				\$ 8,000.00		\$ 20,600.00		\$ 14,600.00		\$ 14,100.00		\$ 20,400.00
SUBTOTAL IRWD CAPITAL PRICE - MILESTONE 3 (SECTIONS G-H)				\$ 8,760.00		\$ 21,925.00		\$ 21,890.00		\$ 17,153.00		\$ 28,809.00
TOTAL PRICE (SECTIONS A-C & D-F & G-H)				\$ 600,263.14		\$ 655,982.98		\$ 998,477.36		\$ 1,372,963.15		\$ 1,628,357.49

EXHIBIT "C"

CONTRACT PRICE SCHEDULE
HERITAGE FIELDS - DISTRICT 1 - JOINT BACKBONE IMPROVEMENTS
 CITY OF IRVINE, ORANGE COUNTY, CALIFORNIA
 DISTRICT 1, GROUP 3, UNDERGROUND IMPROVEMENTS -
 STORM DRAIN, SANITARY SEWER, RECYCLED WATER, AND DOMESTIC WATER - IRWD CODE 5992
 COMMUNITY FACILITIES DISTRICT, NON-COMMUNITY FACILITY DISTRICT AND IRWD CAPITAL IMPROVEMENTS

**LN STR IRWD CODE 5992
 CAPITAL IMPROVEMENTS BID SPREAD**

Item	Description	Estimated Quantity	Unit	ENGINEER'S EST - H&A		LOW BID - FYDAQ		L&S		LEATHERWOOD		KENNEDY	
				Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
I IRWD CAPITAL - 'LN' ST													
WET UTILITY IMPROVEMENTS													
Construction Plans for the Irvine Ranch Water District, Planning Area 51, Great Park Neighborhoods, Capital Improvements, 'LN' Street (from 'C' Street to 'L' Street) 12" Domestic Water Zone 4R (540 HGL) and 6" Recycled Water Zone C (640 HGL), Capital Project No. 11719 (4620) & 31719 (4621) - IRWD Code 5992													
A GENERAL - IRWD CAPITAL - 'LN' ST													
1.	MOBILIZATION (NOT TO EXCEED 2% OF CONTRACT PRICE OF SECTIONS A-C)	1	LS	\$ 2,100.00	\$ 2,100.00	\$ -	\$ -	\$ 2,500.00	\$ 2,500.00	\$ 2,600.00	\$ 2,600.00	\$ 3,200.00	\$ 3,200.00
2.	PAYMENT AND PERFORMANCE BONDS - (SECTIONS A-C)	1	LS	\$ 1,050.00	\$ 1,050.00	\$ 1,532.50	\$ 1,532.50	\$ 1,850.00	\$ 1,850.00	\$ 2,400.00	\$ 2,400.00	\$ 3,360.00	\$ 3,360.00
3.	SWPPP & BMPs (SECTIONS A-C)	1	LS	\$ 1,880.00	\$ 1,880.00	\$ 2,500.00	\$ 2,500.00	\$ 500.00	\$ 500.00	\$ 1,000.00	\$ 1,000.00	\$ 750.00	\$ 750.00
4.	DEVELOP CONSTRUCTION WATER (SECTIONS A-C)	1	LS	\$ 1,575.00	\$ 1,575.00	\$ 2,500.00	\$ 2,500.00	\$ 800.00	\$ 800.00	\$ 500.00	\$ 500.00	\$ 1,000.00	\$ 1,000.00
5.	TRAFFIC CONTROL & DAILY STREET CLEANING (SECTIONS A-C)	1	LS	\$ 1,575.00	\$ 1,575.00	\$ -	\$ -	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	\$ 1,000.00	\$ 1,000.00
GENERAL - IRWD CAPITAL - 'LN' ST - SUBTOTAL (SECTION A)				\$ 7,980.00	\$ 7,980.00	\$ 6,532.50	\$ 6,532.50	\$ 7,150.00	\$ 7,150.00	\$ 8,000.00	\$ 8,000.00	\$ 9,310.00	\$ 9,310.00
B. RECYCLED WATER - IRWD CAPITAL - 'LN' ST													
6.	CONST 6" AWWA C-900 PURPLE PVC, DR14, W/ TRENCH & BEDDING PER IRWD STD NO. W-17	979	LF	\$ 32.00	\$ 31,328.00	\$ 18.00	\$ 17,622.00	\$ 27.00	\$ 26,433.00	\$ 35.00	\$ 34,265.00	\$ 55.00	\$ 53,845.00
7.	INSTALL 6" BUTTERFLY VALVE, CL 150B, FLG'D W/ VALVE BOX PER IRWD STD. W-22	1	EA	\$ 1,800.00	\$ 1,800.00	\$ 2,196.50	\$ 2,196.50	\$ 2,200.00	\$ 2,200.00	\$ 2,300.00	\$ 2,300.00	\$ 1,200.00	\$ 1,200.00
8.	INSTALL 4" RESILIENT WEDGE GATE VALVE, CL 150, FLG'D W/ VALVE BOX PER IRWD STD. W-22	2	EA	\$ 1,370.00	\$ 2,740.00	\$ 1,241.00	\$ 2,482.00	\$ 1,350.00	\$ 2,700.00	\$ 1,550.00	\$ 3,100.00	\$ 1,000.00	\$ 2,000.00
9.	INSTALL 6"x6"x4"x4" D.I. CROSS, FLG'D, W/ THRUST BLOCK PER IRWD STD NO. W-16	1	EA	\$ 270.00	\$ 270.00	\$ 500.00	\$ 500.00	\$ 440.00	\$ 440.00	\$ 925.00	\$ 925.00	\$ 650.00	\$ 650.00
10.	INSTALL 6" D.I. BEND, POXPO, W/ THRUST BLOCK PER IRWD STD NO. W-16	6	EA	\$ 90.00	\$ 540.00	\$ 500.00	\$ 3,000.00	\$ 300.00	\$ 1,800.00	\$ 260.00	\$ 1,560.00	\$ 300.00	\$ 1,800.00
11.	INSTALL 6" D.I. FEXPO ADAPTER	2	EA	\$ 90.00	\$ 180.00	\$ 500.00	\$ 1,000.00	\$ 245.00	\$ 490.00	\$ 350.00	\$ 700.00	\$ 150.00	\$ 300.00
12.	INSTALL 4" DI BLIND FLANGE	2	EA	\$ 60.00	\$ 120.00	\$ 500.00	\$ 1,000.00	\$ 220.00	\$ 440.00	\$ 20.00	\$ 40.00	\$ 150.00	\$ 300.00
13.	REMOVE TEMP FLUSH-OUT AND JOIN EXISTING	2	EA	\$ 900.00	\$ 1,800.00	\$ 2,500.00	\$ 5,000.00	\$ 2,700.00	\$ 5,400.00	\$ 2,600.00	\$ 5,200.00	\$ 1,800.00	\$ 3,600.00
RECYCLED WATER - IRWD CAPITAL - 'LN' ST - SUBTOTAL (SECTION B)				\$ 38,578.00	\$ 38,578.00	\$ 32,800.50	\$ 32,800.50	\$ 36,903.00	\$ 36,903.00	\$ 48,090.00	\$ 48,090.00	\$ 63,695.00	\$ 63,695.00
C. DOMESTIC WATER - IRWD CAPITAL - 'LN' ST													
14.	CONST 12" AWWA C-900 PVC, DR14, W/ TRENCH & BEDDING PER IRWD STD NO. W-17	983	LF	\$ 51.00	\$ 50,133.00	\$ 45.00	\$ 44,235.00	\$ 51.00	\$ 50,133.00	\$ 55.00	\$ 54,065.00	\$ 79.00	\$ 77,857.00
15.	INSTALL 12" BUTTERFLY VALVE, CL 150B, FLG'D W/ VALVE BOX PER IRWD STD. W-22	2	EA	\$ 2,673.00	\$ 5,346.00	\$ 2,738.00	\$ 5,476.00	\$ 3,930.00	\$ 7,860.00	\$ 3,800.00	\$ 7,600.00	\$ 3,600.00	\$ 7,000.00
16.	INSTALL 8" RESILIENT WEDGE GATE VALVE, CL 150, FLG'D W/ VALVE BOX PER IRWD STD. W-22	3	EA	\$ 1,800.00	\$ 5,400.00	\$ 1,968.00	\$ 5,904.00	\$ 2,200.00	\$ 6,600.00	\$ 2,350.00	\$ 7,050.00	\$ 2,100.00	\$ 6,300.00
17.	INSTALL 12"x12"x8"x8" D.I. CROSS, FLG'D, W/ THRUST BLOCK PER IRWD STD NO. W-16	1	EA	\$ 540.00	\$ 540.00	\$ 500.00	\$ 500.00	\$ 900.00	\$ 900.00	\$ 1,450.00	\$ 1,450.00	\$ 850.00	\$ 850.00
18.	INSTALL 12"x12"x8"x8" D.I. TEE, FLG'D, W/ THRUST BLOCK PER IRWD STD NO. W-16	1	EA	\$ 420.00	\$ 420.00	\$ 500.00	\$ 500.00	\$ 1,100.00	\$ 1,100.00	\$ 750.00	\$ 750.00	\$ 850.00	\$ 850.00
19.	INSTALL 8" D.I. BEND, POXPO, W/ THRUST BLOCK PER IRWD STD NO. W-16	4	EA	\$ 120.00	\$ 480.00	\$ 500.00	\$ 2,000.00	\$ 450.00	\$ 1,800.00	\$ 320.00	\$ 1,280.00	\$ 350.00	\$ 1,400.00
20.	INSTALL 12" D.I. FEXPO ADAPTER	4	EA	\$ 180.00	\$ 720.00	\$ 500.00	\$ 2,000.00	\$ 540.00	\$ 2,160.00	\$ 600.00	\$ 2,400.00	\$ 150.00	\$ 600.00
21.	INSTALL 8" DI BLIND FLANGE	3	EA	\$ 80.00	\$ 240.00	\$ 600.00	\$ 1,800.00	\$ 200.00	\$ 600.00	\$ 100.00	\$ 300.00	\$ 100.00	\$ 300.00
22.	REMOVE TEMP FLUSH-OUT AND JOIN EXISTING	2	EA	\$ 900.00	\$ 1,800.00	\$ 2,500.00	\$ 5,000.00	\$ 2,700.00	\$ 5,400.00	\$ 2,900.00	\$ 5,800.00	\$ 1,800.00	\$ 3,600.00
DOMESTIC WATER - IRWD CAPITAL - 'LN' ST - SUBTOTAL (SECTION C)				\$ 64,679.00	\$ 64,679.00	\$ 67,115.00	\$ 67,115.00	\$ 76,553.00	\$ 76,553.00	\$ 80,295.00	\$ 80,295.00	\$ 98,357.00	\$ 98,357.00
TOTAL - IRWD CAPITAL - 'LN' ST PRICE (SECTIONS A-C)				\$ 111,437.00	\$ 111,437.00	\$ 106,448.00	\$ 106,448.00	\$ 123,606.00	\$ 123,606.00	\$ 138,385.00	\$ 138,385.00	\$ 171,362.00	\$ 171,362.00

CONTRACT PRICE SCHEDULE
HERITAGE FIELDS - DISTRICT 1 - JOINT BACKBONE IMPROVEMENTS
 CITY OF IRVINE, ORANGE COUNTY, CALIFORNIA
 DISTRICT 1, GROUP 3, UNDERGROUND IMPROVEMENTS -
 STORM DRAIN, SANITARY SEWER, RECYCLED WATER, AND DOMESTIC WATER - IRWD CODE 5991
 COMMUNITY FACILITIES DISTRICT, NON-COMMUNITY FACILITY DISTRICT AND IRWD CAPITAL IMPROVEMENTS

EXHIBIT "D"

**LQ STR IRWD CODE 5991
 CAPITAL IMPROVEMENTS BID SPREAD**

Item	Description	Estimated Quantity	Unit	ENGINEER'S EST - H&A		LOW BID - FYDAQ		L&S		LEATHERWOOD		KENNEDY	
				Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
I. IRWD CAPITAL - 'LQ' ST													
Construction Plans for the Irvine Ranch Water District Planning Area 51, Great Park Neighborhoods Capital Improvements, 'LQ' Street (from Ridge Valley to 'LY' Street), 18" Sanitary Sewer and 6" Recycled Water Zone B (480 HGL) - Capital Project Nos. 21156 (4648)& 31156 (4649), IRWD Code 5991													
A. GENERAL - IRWD CAPITAL - 'LQ' ST													
1.	MOBILIZATION (NOT TO EXCEED 2% OF CONTRACT PRICE OF SECTIONS A-C)	1	LS	\$ 5,000.00	\$ 5,000.00	\$ -	\$ -	\$ 4,800.00	\$ 4,800.00	\$ 3,800.00	\$ 3,800.00	\$ 3,800.00	\$ 3,800.00
2.	PAYMENT AND PERFORMANCE BONDS - (SECTIONS A-C)	1	LS	\$ 2,500.00	\$ 2,500.00	\$ 2,117.00	\$ 2,117.00	\$ 3,850.00	\$ 3,650.00	\$ 3,000.00	\$ 3,000.00	\$ 3,800.00	\$ 3,800.00
3.	SWPPP & BMPS (SECTIONS A-C)	1	LS	\$ 4,000.00	\$ 4,000.00	\$ 2,500.00	\$ 2,500.00	\$ 800.00	\$ 800.00	\$ 2,000.00	\$ 2,000.00	\$ 750.00	\$ 750.00
4.	DEVELOP CONSTRUCTION WATER (SECTIONS A-C)	1	LS	\$ 3,750.00	\$ 3,750.00	\$ 2,500.00	\$ 2,500.00	\$ 800.00	\$ 800.00	\$ 500.00	\$ 500.00	\$ 1,000.00	\$ 1,000.00
5.	TRAFFIC CONTROL & DAILY STREET CLEANING (SECTIONS A-C)	1	LS	\$ 3,750.00	\$ 3,750.00	\$ -	\$ -	\$ 800.00	\$ 800.00	\$ 2,500.00	\$ 2,500.00	\$ 1,000.00	\$ 1,000.00
6.	WELL PROTECTION (K-RAIL AND SECURITY FENCING)	1	EA	\$ 1,000.00	\$ 1,000.00	\$ 5,000.00	\$ 5,000.00	\$ 2,000.00	\$ 2,000.00	\$ 3,250.00	\$ 3,250.00	\$ 1,000.00	\$ 1,000.00
GENERAL - IRWD CAPITAL - 'LQ' ST - SUBTOTAL (SECTION A)				\$ 20,000.00		\$ 12,117.00		\$ 12,850.00		\$ 15,050.00		\$ 11,350.00	
B. SANITARY SEWER - IRWD CAPITAL - 'LQ' ST													
7.	CONSTRUCT 18" SDR-35 PVC DEEP (>15 FT DEPTH) SEWER MAIN, BEDDING PER IRWD STD NO. S-8	652	LF	\$ 180.00	\$ 117,360.00	\$ 71.50	\$ 46,818.00	\$ 155.00	\$ 101,080.00	\$ 115.00	\$ 74,980.00	\$ 165.00	\$ 107,580.00
8.	CONSTRUCT 18" C-905, DR-18 PVC DEEP (>15 FT DEPTH) WITH BEDDING AND SEWER MARKING TAPE PER IRWD STD S-8	131	LF	\$ 180.00	\$ 23,580.00	\$ 102.00	\$ 13,382.00	\$ 197.00	\$ 25,807.00	\$ 145.00	\$ 18,995.00	\$ 185.00	\$ 24,235.00
9.	CONSTRUCT 18" C-905, DR-18 PVC DEEP (>20 FT DEPTH) WITH BEDDING AND SEWER MARKING TAPE PER IRWD STD S-8	121	LF	\$ 277.00	\$ 33,517.00	\$ 107.00	\$ 12,947.00	\$ 212.00	\$ 25,852.00	\$ 150.00	\$ 18,150.00	\$ 261.00	\$ 31,581.00
10.	CONSTRUCT 60" MANHOLE PER IRWD STD S-1	4	EA	\$ 8,580.00	\$ 34,320.00	\$ 8,485.00	\$ 25,940.00	\$ 8,000.00	\$ 32,000.00	\$ 7,500.00	\$ 30,000.00	\$ 7,500.00	\$ 30,000.00
11.	CONSTRUCT 60" MANHOLE PER IRWD STD S-1 W/ MODIFIED BASE PER DETAIL ON PLAN	1	EA	\$ 9,500.00	\$ 9,500.00	\$ 8,485.00	\$ 8,485.00	\$ 8,100.00	\$ 8,100.00	\$ 9,150.00	\$ 9,150.00	\$ 6,500.00	\$ 6,500.00
12.	INSTALL TEMP 6" TERMINAL CLEANOUT PER IRWD STD DWG S-5	1	EA	\$ 650.00	\$ 650.00	\$ 803.00	\$ 803.00	\$ 1,150.00	\$ 1,150.00	\$ 1,100.00	\$ 1,100.00	\$ 950.00	\$ 950.00
13.	REMOVE TEMP TERMINAL CLEANOUT AND JOIN EXISTING	1	EA	\$ 482.00	\$ 482.00	\$ 1,500.00	\$ 1,500.00	\$ 4,000.00	\$ 4,000.00	\$ 1,300.00	\$ 1,300.00	\$ 3,000.00	\$ 3,000.00
SANITARY SEWER - IRWD CAPITAL - 'LQ' ST - SUBTOTAL (SECTION B)				\$ 219,389.00		\$ 109,455.00		\$ 197,769.00		\$ 153,675.00		\$ 205,848.00	
C. RECYCLED WATER - IRWD CAPITAL - 'LQ' ST													
14.	CONST 6" AWWA C-900 PURPLE PVC, DR14, W/ TRENCH & BEDDING PER IRWD STD NO. W-17	714	LF	\$ 32.00	\$ 22,848.00	\$ 20.00	\$ 14,280.00	\$ 27.00	\$ 19,278.00	\$ 26.00	\$ 18,564.00	\$ 55.00	\$ 39,270.00
15.	INSTALL 6" RESILIENT WEDGE GATE VALVE, CL 150, FLGD W/ VALVE BOX PER IRWD STD. W-22	3	EA	\$ 1,500.00	\$ 4,500.00	\$ 1,464.00	\$ 4,392.00	\$ 1,550.00	\$ 4,650.00	\$ 1,700.00	\$ 5,100.00	\$ 1,200.00	\$ 3,600.00
16.	INSTALL 6"x8"x8" D.I. TEE, FLGD, W/ THRUST BLOCK PER IRWD STD NO. W-18	1	EA	\$ 210.00	\$ 210.00	\$ 500.00	\$ 500.00	\$ 440.00	\$ 440.00	\$ 350.00	\$ 350.00	\$ 300.00	\$ 300.00
17.	INSTALL 6" D.I. BEND, FEXPO, W/ THRUST BLOCK PER IRWD STD NO. W-16	1	EA	\$ 120.00	\$ 120.00	\$ 500.00	\$ 500.00	\$ 400.00	\$ 400.00	\$ 270.00	\$ 270.00	\$ 250.00	\$ 250.00
18.	INSTALL 6" D.I. BEND, POxPO, W/ THRUST BLOCK PER IRWD STD NO. W-16	1	EA	\$ 90.00	\$ 90.00	\$ 500.00	\$ 500.00	\$ 300.00	\$ 300.00	\$ 260.00	\$ 260.00	\$ 250.00	\$ 250.00
19.	INSTALL 6" D.I. FEXPO ADAPTER	1	EA	\$ 90.00	\$ 90.00	\$ 500.00	\$ 500.00	\$ 245.00	\$ 245.00	\$ 270.00	\$ 270.00	\$ 100.00	\$ 100.00
20.	INSTALL 6" DI BLIND FLANGE	1	EA	\$ 60.00	\$ 60.00	\$ 500.00	\$ 500.00	\$ 220.00	\$ 220.00	\$ 120.00	\$ 120.00	\$ 100.00	\$ 100.00
21.	INSTALL TEMPORARY FLUSH-OUT ASSEMBLY PER IRWD STD. W-12	1	EA	\$ 1,500.00	\$ 1,500.00	\$ 1,805.00	\$ 1,805.00	\$ 1,750.00	\$ 1,750.00	\$ 1,150.00	\$ 1,150.00	\$ 1,000.00	\$ 1,000.00
22.	REMOVE TEMPORARY FLUSH-OUT AND JOIN EXIST	1	EA	\$ 900.00	\$ 900.00	\$ 2,500.00	\$ 2,500.00	\$ 2,600.00	\$ 2,600.00	\$ 2,800.00	\$ 2,800.00	\$ 1,500.00	\$ 1,500.00
RECYCLED WATER - IRWD CAPITAL - 'LQ' ST - SUBTOTAL (SECTION C)				\$ 30,318.00		\$ 25,477.00		\$ 29,883.00		\$ 26,884.00		\$ 45,370.00	
TOTAL - IRWD CAPITAL - 'LQ' ST PRICE (SECTIONS A-C)				\$ 289,707.00		\$ 147,049.00		\$ 240,502.00		\$ 187,409.00		\$ 263,566.00	

**C STR IRWD CODE 5987
 CAPITAL IMPROVEMENTS BID SPREAD**

Item Description	Estimated Quantity	Unit	ENGINEER'S EST - H&A		LOW BID - LEATHERWOOD		L&S		KENNEDY		FYDAQ	
			Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
IV. IRWD CAPITAL D1 NORTH												
WET UTILITY IMPROVEMENTS												
Construction Plans for the Irvine Ranch Water District, PA 51, Great Park Neighborhoods, Capital Improvements, "C" Street (from Trabuco Road to "LO" Street) Sanitary Sewer, Capital Project No. 21159 (4653)- IRWD Code 5987												
P GENERAL - IRWD CAPITAL - MILESTONE 1 - "C" ST SEG II SS												
99. MOBILIZATION (NOT TO EXCEED 2% OF CONTRACT PRICE SECTIONS P-Q)	1	LS	\$ 7,000.00	\$ 7,000.00	\$ 3,500.00	\$ 3,500.00	\$ 6,400.00	\$ 6,400.00	\$ 6,300.00	\$ 8,300.00	\$ 3,000.00	\$ 3,000.00
100. PAYMENT AND PERFORMANCE BONDS (SECTIONS P-Q)	1	LS	\$ 3,500.00	\$ 3,500.00	\$ 2,500.00	\$ 2,500.00	\$ 5,000.00	\$ 5,000.00	\$ 5,742.00	\$ 5,742.00	\$ 4,352.00	\$ 4,352.00
101. STORM WATER POLLUTION PREVENTION PLAN & BMPS (SECTIONS P-Q)	1	LS	\$ 5,600.00	\$ 5,600.00	\$ 5,000.00	\$ 5,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,300.00	\$ 1,300.00	\$ 2,500.00	\$ 2,500.00
102. DEVELOP CONSTRUCTION WATER (SECTIONS P-Q)	1	LS	\$ 5,250.00	\$ 5,250.00	\$ 500.00	\$ 500.00	\$ 1,000.00	\$ 1,000.00	\$ 1,500.00	\$ 1,500.00	\$ 2,500.00	\$ 2,500.00
103. TRAFFIC CONTROL & DAILY STREET SWEEPING (SECTIONS P-Q)	1	LS	\$ 5,250.00	\$ 5,250.00	\$ 1,000.00	\$ 1,000.00	\$ 1,750.00	\$ 1,750.00	\$ 1,500.00	\$ 1,500.00	\$ -	\$ -
GENERAL - IRWD CAPITAL - MILESTONE 1 - SUBTOTAL (SECTION P)				\$ 26,600.00		\$ 12,500.00		\$ 16,650.00		\$ 16,342.00		\$ 12,352.00
Q. SANITARY SEWER - IRWD CAPITAL - MILESTONE 1 - "C" ST SEG II												
104. CONSTRUCT 18" SDR-35 PVC DEEP (>15 FT DEPTH) SEWER MAIN, BEDDING PER IRWD STD NO. S-6	1,087	LF	\$ 160.00	\$ 195,660.00	\$ 89.00	\$ 96,743.00	\$ 160.00	\$ 173,920.00	\$ 195.00	\$ 211,965.00	\$ 140.00	\$ 152,180.00
105. CONSTRUCT 18" SDR-35 PVC DEEP (>20 FT DEPTH) SEWER MAIN, BEDDING PER IRWD STD NO. S-6	300	LF	\$ 277.00	\$ 83,100.00	\$ 90.00	\$ 27,000.00	\$ 175.00	\$ 52,500.00	\$ 280.00	\$ 84,000.00	\$ 180.00	\$ 54,000.00
106. CONSTRUCT 60" MANHOLE PER IRWD STD S-1	8	EA	\$ 8,580.00	\$ 68,640.00	\$ 6,200.00	\$ 49,600.00	\$ 7,800.00	\$ 62,400.00	\$ 9,000.00	\$ 72,000.00	\$ 10,000.00	\$ 80,000.00
107. INSTALL TEMP 8" TERMINAL CLEANOUT PER IRWD STD NO. S-5	1	EA	\$ 1,028.00	\$ 1,028.00	\$ 1,250.00	\$ 1,250.00	\$ 1,150.00	\$ 1,150.00	\$ 750.00	\$ 750.00	\$ 3,000.00	\$ 3,000.00
108. REMOVE TEMP 12" TERMINAL CLEANOUT AND JOIN EXISTING SEWER	1	EA	\$ 462.00	\$ 462.00	\$ 1,300.00	\$ 1,300.00	\$ 2,800.00	\$ 2,800.00	\$ 3,500.00	\$ 3,500.00	\$ 5,000.00	\$ 5,000.00
SANITARY SEWER - IRWD CAPITAL - MILESTONE 1 - SUBTOTAL (SECTION Q)				\$ 348,890.00		\$ 175,893.00		\$ 282,770.00		\$ 372,215.00		\$ 294,180.00
TOTAL - IRWD CAPITAL PRICE (SECTIONS P-Q)				\$ 375,490.00		\$ 188,393.00		\$ 309,420.00		\$ 388,557.00		\$ 306,532.00
R. GENERAL - IRWD CAPITAL - MILESTONE 2 - "C" ST SEG I SS												
109. MOBILIZATION (NOT TO EXCEED 2% OF CONTRACT PRICE SECTIONS R-S)	1	LS	\$ 100.00	\$ 100.00	\$ 200.00	\$ 200.00	\$ 270.00	\$ 270.00	\$ 150.00	\$ 150.00	\$ 3,000.00	\$ 3,000.00
110. PAYMENT AND PERFORMANCE BONDS (SECTIONS R-S)	1	LS	\$ 50.00	\$ 50.00	\$ 125.00	\$ 125.00	\$ 270.00	\$ 270.00	\$ 156.00	\$ 156.00	\$ 384.00	\$ 384.00
111. STORM WATER POLLUTION PREVENTION PLAN & BMPS (SECTIONS R-S)	1	LS	\$ 80.00	\$ 80.00	\$ 100.00	\$ 100.00	\$ 200.00	\$ 200.00	\$ 650.00	\$ 650.00	\$ 2,500.00	\$ 2,500.00
112. DEVELOP CONSTRUCTION WATER (SECTIONS R-S)	1	LS	\$ 75.00	\$ 75.00	\$ 100.00	\$ 100.00	\$ 200.00	\$ 200.00	\$ 750.00	\$ 750.00	\$ 2,500.00	\$ 2,500.00
113. TRAFFIC CONTROL & DAILY STREET SWEEPING (SECTIONS R-S)	1	LS	\$ 75.00	\$ 75.00	\$ 500.00	\$ 500.00	\$ 1,550.00	\$ 1,550.00	\$ 1,000.00	\$ 1,000.00	\$ -	\$ -
GENERAL - IRWD CAPITAL - MILESTONE 2 - SUBTOTAL (SECTION R)				\$ 380.00		\$ 1,025.00		\$ 2,490.00		\$ 2,706.00		\$ 8,384.00
S. RECONSTRUCTION - IRWD CAPITAL - MILESTONE 2 - "C" ST SEG I SS												
114. RAISE MANHOLES TO FINAL GRADE	8	EA	\$ 500.00	\$ 4,000.00	\$ 550.00	\$ 4,400.00	\$ 550.00	\$ 4,400.00	\$ 5,500.00	\$ 44,000.00	\$ 450.00	\$ 3,600.00
115. ALL ELSE REQUIRED TO FINALIZE SANITARY SEWER FOR IRWD ACCEPTANCE	1	LS	\$ 2,000.00	\$ 2,000.00	\$ 7,000.00	\$ 7,000.00	\$ 6,850.00	\$ 6,850.00	\$ 3,500.00	\$ 3,500.00	\$ 15,000.00	\$ 15,000.00
SANITARY SEWER - IRWD CAPITAL - MILESTONE 2 - SUBTOTAL (SECTION S)				\$ 6,000.00		\$ 11,400.00		\$ 11,250.00		\$ 47,500.00		\$ 18,600.00
SUBTOTAL IRWD CAPITAL PRICE - MILESTONE 2 (SECTIONS R-S)				\$ 6,380.00		\$ 12,425.00		\$ 13,740.00		\$ 50,206.00		\$ 26,984.00
TOTAL - IRWD CAPITAL PRICE (SECTIONS P-S)				\$ 381,870.00		\$ 200,818.00		\$ 323,160.00		\$ 438,763.00		\$ 333,516.00

CONTRACT PRICE SCHEDULE
 HERITAGE FIELDS - DISTRICT 1 - JOINT BACKBONE IMPROVEMENTS
 CITY OF IRVINE, ORANGE COUNTY, CALIFORNIA
 DISTRICT 1, GROUP 3, UNDERGROUND IMPROVEMENTS -

EXHIBIT "F"

STORM DRAIN, SANITARY SEWER, RECYCLED WATER, AND DOMESTIC WATER IRWD CODE 5990
 COMMUNITY FACILITIES DISTRICT, NON-COMMUNITY FACILITY DISTRICT AND IRWD CAPITAL IMPROVEMENTS

C STR IRWD CODE 5990 CAPITAL IMPROVEMENTS BID SPREAD

Item	Description	Estimated Quantity	Unit	ENGINEER'S EST - H&A		LOW BID - FYDAQ		L&S		LEATHERWOOD		KENNEDY	
				Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
IRWD CAPITAL - 'C' ST SEG III													
WET UTILITY IMPROVEMENTS													
Construction Plans for the Irvine Ranch Water District, Planning Area 51, Great Park Neighborhoods Capital Improvements, 'C' Street (from 'LC' Street to 'C' Street) 12" Domestic Water Zone 4R (540 HGL) and 6" Recycled Water Zone C (640 HGL) Capital Project Nos. 11721 (4845) & 31721 (4848) - IRWD Code 5990													
A GENERAL - IRWD CAPITAL - 'C' ST SEG III													
1.	MOBILIZATION (NOT TO EXCEED 2% OF CONTRACT PRICE OF SECTIONS A-C)	1	LS	\$ 3,900.00	\$ 3,900.00	\$ -	\$ -	\$ 5,000.00	\$ 5,000.00	\$ 5,200.00	\$ 5,200.00	\$ 7,100.00	\$ 7,100.00
2.	PAYMENT AND PERFORMANCE BONDS - (SECTIONS A-C)	1	LS	\$ 1,950.00	\$ 1,950.00	\$ 2,780.00	\$ 2,780.00	\$ 4,000.00	\$ 4,000.00	\$ 3,000.00	\$ 3,000.00	\$ 6,960.00	\$ 6,960.00
3.	SWPPP & BMPs (SECTIONS A-C)	1	LS	\$ 3,120.00	\$ 3,120.00	\$ 2,500.00	\$ 2,500.00	\$ 500.00	\$ 500.00	\$ 2,000.00	\$ 2,000.00	\$ 1,000.00	\$ 1,000.00
4.	DEVELOP CONSTRUCTION WATER (SECTIONS A-C)	1	LS	\$ 2,925.00	\$ 2,925.00	\$ 2,500.00	\$ 2,500.00	\$ 800.00	\$ 800.00	\$ 600.00	\$ 600.00	\$ 1,000.00	\$ 1,000.00
5.	TRAFFIC CONTROL & DAILY STREET CLEANING (SECTIONS A-C)	1	LS	\$ 2,925.00	\$ 2,925.00	\$ -	\$ -	\$ 1,500.00	\$ 1,500.00	\$ 2,500.00	\$ 2,500.00	\$ 1,000.00	\$ 1,000.00
GENERAL - IRWD CAPITAL - 'C' ST SEG III - SUBTOTAL (SECTION A)				\$ 14,820.00		\$ 7,780.00		\$ 11,800.00		\$ 13,200.00		\$ 17,060.00	
B. RECYCLED WATER - IRWD CAPITAL - 'C' ST SEG III													
6.	CONST 6" AWWA C-900 PURPLE PVC, DR14, W/ TRENCH & BEDDING PER IRWD STD NO. W-17	1,423	LF	\$ 32.00	\$ 45,536.00	\$ 18.00	\$ 25,614.00	\$ 27.00	\$ 38,421.00	\$ 23.00	\$ 32,729.00	\$ 65.00	\$ 92,495.00
7.	INSTALL 6" BUTTERFLY VALVE, CL 150B, FLG'D W/ VALVE BOX PER IRWD STD. W-22	6	EA	\$ 1,600.00	\$ 9,600.00	\$ 2,196.50	\$ 13,179.00	\$ 2,200.00	\$ 13,200.00	\$ 2,750.00	\$ 16,500.00	\$ 1,200.00	\$ 7,200.00
8.	INSTALL 4" RESILIENT WEDGE GATE VALVE, CL 150, FLG'D W/ VALVE BOX PER IRWD STD. W-22	3	EA	\$ 1,370.00	\$ 4,110.00	\$ 1,240.50	\$ 3,721.50	\$ 1,300.00	\$ 3,900.00	\$ 2,250.00	\$ 6,750.00	\$ 1,000.00	\$ 3,000.00
9.	INSTALL 6"x6"x6" D.I. CROSS, FLG'D, W/ THRUST BLOCK PER IRWD STD NO. W-16	1	EA	\$ 270.00	\$ 270.00	\$ 500.00	\$ 500.00	\$ 440.00	\$ 440.00	\$ 925.00	\$ 925.00	\$ 800.00	\$ 800.00
10.	INSTALL 6"x6"x4" D.I. CROSS, FLG'D, W/ THRUST BLOCK PER IRWD STD NO. W-16	1	EA	\$ 270.00	\$ 270.00	\$ 500.00	\$ 500.00	\$ 440.00	\$ 440.00	\$ 925.00	\$ 925.00	\$ 800.00	\$ 800.00
11.	INSTALL 6"x6"x4" D.I. TEE, FLG'D, W/ THRUST BLOCK PER IRWD STD NO. W-16	1	EA	\$ 210.00	\$ 210.00	\$ 500.00	\$ 500.00	\$ 440.00	\$ 440.00	\$ 375.00	\$ 375.00	\$ 500.00	\$ 500.00
12.	INSTALL 6" D.I. BEND, POXPO, W/ THRUST BLOCK PER IRWD STD NO. W-16	2	EA	\$ 90.00	\$ 180.00	\$ 600.00	\$ 1,000.00	\$ 300.00	\$ 600.00	\$ 260.00	\$ 520.00	\$ 350.00	\$ 700.00
13.	INSTALL 6" D.I. FEXPO ADAPTER	6	EA	\$ 90.00	\$ 540.00	\$ 500.00	\$ 3,000.00	\$ 250.00	\$ 1,500.00	\$ 330.00	\$ 1,980.00	\$ 150.00	\$ 900.00
14.	INSTALL 6" DI BLIND FLANGE	2	EA	\$ 80.00	\$ 160.00	\$ 500.00	\$ 1,000.00	\$ 220.00	\$ 440.00	\$ 80.00	\$ 160.00	\$ 100.00	\$ 200.00
15.	INSTALL 4" DI BLIND FLANGE	3	EA	\$ 40.00	\$ 120.00	\$ 500.00	\$ 1,500.00	\$ 220.00	\$ 660.00	\$ 40.00	\$ 120.00	\$ 100.00	\$ 300.00
16.	INSTALL 1" AIR RELEASE AND VACUUM RELIEF ASSEMBLY PER IRWD STD NO. W-11	1	EA	\$ 2,000.00	\$ 2,000.00	\$ 2,309.00	\$ 2,309.00	\$ 3,100.00	\$ 3,100.00	\$ 3,750.00	\$ 3,750.00	\$ 2,500.00	\$ 2,500.00
17.	INSTALL TEMP FLUSH-OUT PER IRWD STD NO. W-12	1	EA	\$ 1,500.00	\$ 1,500.00	\$ 1,805.00	\$ 1,805.00	\$ 1,750.00	\$ 1,750.00	\$ 1,150.00	\$ 1,150.00	\$ 1,000.00	\$ 1,000.00
18.	REMOVE TEMP FLUSH-OUT AND JOIN EXIST	1	EA	\$ 900.00	\$ 900.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00	\$ 2,800.00	\$ 2,800.00	\$ 1,500.00	\$ 1,500.00
RECYCLED WATER - IRWD CAPITAL - 'C' ST SEG III - SUBTOTAL (SECTION B)				\$ 65,356.00		\$ 57,128.50		\$ 67,591.00		\$ 68,444.00		\$ 111,895.00	
C. DOMESTIC WATER - IRWD CAPITAL - 'C' ST SEG III													
19.	CONST 12" AWWA C-900 PVC, DR14, W/ TRENCH & BEDDING PER IRWD STD NO. W-17	1,414	LF	\$ 51.00	\$ 72,114.00	\$ 35.00	\$ 49,490.00	\$ 51.00	\$ 72,114.00	\$ 60.00	\$ 84,840.00	\$ 79.00	\$ 111,706.00
20.	INSTALL 12" BUTTERFLY VALVE, CL 150B, FLG'D W/ VALVE BOX PER IRWD STD. W-22	12	EA	\$ 2,573.00	\$ 30,876.00	\$ 2,738.00	\$ 32,856.00	\$ 4,300.00	\$ 51,600.00	\$ 3,800.00	\$ 45,600.00	\$ 6,000.00	\$ 72,000.00
21.	INSTALL 8" RESILIENT WEDGE GATE VALVE, CL 150, FLG'D W/ VALVE BOX PER IRWD STD. W-22	5	EA	\$ 1,800.00	\$ 9,000.00	\$ 1,968.00	\$ 9,840.00	\$ 2,600.00	\$ 13,000.00	\$ 2,650.00	\$ 13,250.00	\$ 2,100.00	\$ 10,500.00
22.	INSTALL 6" RESILIENT WEDGE GATE VALVE, CL 150, FLG'D W/ VALVE BOX PER IRWD STD. W-22	3	EA	\$ 1,500.00	\$ 4,500.00	\$ 1,960.00	\$ 5,880.00	\$ 1,600.00	\$ 4,800.00	\$ 1,900.00	\$ 5,700.00	\$ 1,200.00	\$ 3,600.00
23.	INSTALL 12"x12"x12"x12" D.I. CROSS, FLG'D, W/ THRUST BLOCK PER IRWD STD NO. W-16	1	EA	\$ 540.00	\$ 540.00	\$ 500.00	\$ 500.00	\$ 1,100.00	\$ 1,100.00	\$ 1,550.00	\$ 1,550.00	\$ 750.00	\$ 750.00
24.	INSTALL 12"x12"x8" D.I. TEE, FLG'D, W/ THRUST BLOCK PER IRWD STD NO. W-16	5	EA	\$ 420.00	\$ 2,100.00	\$ 500.00	\$ 2,500.00	\$ 900.00	\$ 4,500.00	\$ 750.00	\$ 3,750.00	\$ 850.00	\$ 4,250.00
25.	INSTALL 12"x12"x6" D.I. TEE, FLG'D, W/ THRUST BLOCK PER IRWD STD NO. W-16	3	EA	\$ 420.00	\$ 1,260.00	\$ 500.00	\$ 1,500.00	\$ 900.00	\$ 2,700.00	\$ 710.00	\$ 2,130.00	\$ 650.00	\$ 1,950.00
26.	INSTALL 12" D.I. BEND, FEXPO, W/ THRUST BLOCK PER IRWD STD NO. W-16	2	EA	\$ 120.00	\$ 240.00	\$ 500.00	\$ 1,000.00	\$ 600.00	\$ 1,200.00	\$ 630.00	\$ 1,260.00	\$ 450.00	\$ 900.00
27.	INSTALL 12" D.I. BEND, POXPO, W/ THRUST BLOCK PER IRWD STD NO. W-16	10	EA	\$ 120.00	\$ 1,200.00	\$ 500.00	\$ 5,000.00	\$ 600.00	\$ 6,000.00	\$ 425.00	\$ 4,250.00	\$ 450.00	\$ 4,500.00
28.	INSTALL 12" D.I. FEXPO ADAPTER	16	EA	\$ 180.00	\$ 2,880.00	\$ 500.00	\$ 8,000.00	\$ 550.00	\$ 8,800.00	\$ 580.00	\$ 9,280.00	\$ 125.00	\$ 2,000.00
29.	INSTALL 12" DI BLIND FLANGE	2	EA	\$ 120.00	\$ 240.00	\$ 500.00	\$ 1,000.00	\$ 400.00	\$ 800.00	\$ 200.00	\$ 400.00	\$ 150.00	\$ 300.00
30.	INSTALL 8" DI BLIND FLANGE	5	EA	\$ 80.00	\$ 400.00	\$ 500.00	\$ 2,500.00	\$ 200.00	\$ 1,000.00	\$ 100.00	\$ 500.00	\$ 125.00	\$ 625.00
31.	INSTALL 6" DI BLIND FLANGE	3	EA	\$ 80.00	\$ 240.00	\$ 500.00	\$ 1,500.00	\$ 220.00	\$ 660.00	\$ 80.00	\$ 240.00	\$ 100.00	\$ 300.00
32.	INSTALL 1" AIR RELEASE AND VACUUM RELIEF ASSEMBLY PER IRWD STD NO. W-11	1	EA	\$ 2,000.00	\$ 2,000.00	\$ 2,435.00	\$ 2,435.00	\$ 3,100.00	\$ 3,100.00	\$ 4,400.00	\$ 4,400.00	\$ 1,300.00	\$ 1,300.00
33.	INSTALL TEMP FLUSH-OUT PER IRWD STD NO. W-12	1	EA	\$ 1,500.00	\$ 1,500.00	\$ 1,678.00	\$ 1,678.00	\$ 1,750.00	\$ 1,750.00	\$ 2,050.00	\$ 2,050.00	\$ 1,300.00	\$ 1,300.00
34.	REMOVE TEMP FLUSH-OUT AND JOIN EXIST	1	EA	\$ 900.00	\$ 900.00	\$ 2,500.00	\$ 2,500.00	\$ 2,700.00	\$ 2,700.00	\$ 3,400.00	\$ 3,400.00	\$ 1,800.00	\$ 1,800.00
DOMESTIC WATER - IRWD CAPITAL - 'C' ST SEG III - SUBTOTAL (SECTION C)				\$ 129,930.00		\$ 128,179.00		\$ 175,824.00		\$ 182,540.00		\$ 217,781.00	
TOTAL - IRWD CAPITAL - 'C' ST SEG III PRICE (SECTIONS A-C)				\$ 210,106.00		\$ 193,067.50		\$ 255,215.00		\$ 264,184.00		\$ 346,736.00	

EXHIBIT "G"

**LV STR IRWD CODE 6033
 CAPITAL IMPROVEMENTS BID SPREAD**

Item	Description	Estimated Quantity	Unit	ENGINEER'S EST - H&A		LOW BID - LEATHERWOOD		L&S		KENNEDY		FYDAQ	
				Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
II. IRWD CAPITAL D1 SOUTH													
WET UTILITY IMPROVEMENTS													
Construction Plans for the Irvine Ranch Water District, Planning Area 61, Great Park Neighborhoods Capital Improvements, "LV" Street (From Ridge Valley to "L1" Street) 18" Sanitary Sewer & 12" Recycled Water Zone B (400 HGL) Capital Project Nos. 21159 (4624) & 31159 (4625) - IRWD Code 6033													
I. GENERAL - IRWD CAPITAL - "LV" ST													
54.	MOBILIZATION (NOT TO EXCEED 2% OF CONTRACT PRICE SECTIONS I-K)	1	LS	\$ 5,600.00	\$ 5,600.00	\$ 6,200.00	\$ 6,200.00	\$ 7,400.00	\$ 7,400.00	\$ 78,000.00	\$ 78,000.00	\$ 3,000.00	\$ 3,000.00
55.	PAYMENT AND PERFORMANCE BONDS (SECTIONS I-K)	1	LS	\$ 2,800.00	\$ 2,800.00	\$ 4,200.00	\$ 4,200.00	\$ 6,200.00	\$ 6,200.00	\$ 6,700.00	\$ 6,700.00	\$ 8,700.00	\$ 8,700.00
56.	STORM WATER POLLUTION PREVENTION PLAN & BMPs (SECTIONS I-K)	1	LS	\$ 4,480.00	\$ 4,480.00	\$ 5,000.00	\$ 5,000.00	\$ 2,500.00	\$ 2,500.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00
57.	DEVELOP CONSTRUCTION WATER (SECTIONS I-K)	1	LS	\$ 4,200.00	\$ 4,200.00	\$ 500.00	\$ 500.00	\$ 1,100.00	\$ 1,100.00	\$ 1,500.00	\$ 1,500.00	\$ 2,500.00	\$ 2,500.00
58.	TRAFFIC CONTROL & DAILY STREET SWEEPING (SECTIONS I-K)	1	LS	\$ 4,200.00	\$ 4,200.00	\$ 5,000.00	\$ 5,000.00	\$ 3,200.00	\$ 3,200.00	\$ 2,000.00	\$ 2,000.00	\$ -	\$ -
GENERAL - IRWD CAPITAL - SUBTOTAL (SECTION I)				\$ 21,280.00		\$ 20,900.00		\$ 26,400.00		\$ 80,200.00		\$ 14,318.00	
J. SANITARY SEWER - IRWD CAPITAL - "LV" ST													
59.	REMOVE, SALVAGE TO OWNER'S STOCKPILE, AND REPLACE EXISTING PAVEMENT PER CITY OF IRVINE STD 229	788	LF	\$ 10.00	\$ 7,880.00	\$ 32.00	\$ 25,152.00	\$ 60.00	\$ 47,160.00	\$ 65.00	\$ 51,090.00	\$ 55.00	\$ 43,230.00
60.	REMOVE AND DISPOSE OF INTERFERING PORTIONS OF EXISTING UTILITIES (EXCLUDES TRANSITE PIPE)	1	LS	\$ 5,000.00	\$ 5,000.00	\$ 2,800.00	\$ 2,800.00	\$ 2,500.00	\$ 2,500.00	\$ 7,500.00	\$ 7,500.00	\$ 25,000.00	\$ 25,000.00
61.	CONSTRUCT 18" SDR-35 PVC DEEP (>10 FT DEPTH) SEWER MAIN, BEDDING PER IRWD STD NO. S-6	145	LF	\$ 78.00	\$ 11,310.00	\$ 76.00	\$ 10,875.00	\$ 130.00	\$ 18,850.00	\$ 115.00	\$ 16,675.00	\$ 130.00	\$ 18,850.00
62.	CONSTRUCT 18" SDR-35 PVC DEEP (>12 FT DEPTH) SEWER MAIN, BEDDING PER IRWD STD NO. S-6	300	LF	\$ 131.00	\$ 39,300.00	\$ 100.00	\$ 30,000.00	\$ 140.00	\$ 42,000.00	\$ 150.00	\$ 45,000.00	\$ 145.00	\$ 43,500.00
63.	CONSTRUCT 18" SDR-35 PVC DEEP (>15 FT DEPTH) SEWER MAIN, BEDDING PER IRWD STD NO. S-6	63	LF	\$ 180.00	\$ 11,340.00	\$ 105.00	\$ 6,615.00	\$ 165.00	\$ 10,395.00	\$ 198.00	\$ 12,537.00	\$ 160.00	\$ 10,080.00
64.	CONSTRUCT 18" C908, DR18, PVC DEEP (>15 FT DEPTH) SEWER MAIN W/ SEWER INDICATOR TAPE & BEDDING PER IRWD STD NO. S-6	296	LF	\$ 180.00	\$ 53,280.00	\$ 180.00	\$ 47,360.00	\$ 175.00	\$ 51,900.00	\$ 215.00	\$ 63,640.00	\$ 230.00	\$ 68,080.00
65.	INSTALL TEMPORARY 6" TERMINAL CLEANOUT PER IRWD STD DWG S-5	1	LF	\$ 660.00	\$ 660.00	\$ 1,250.00	\$ 1,250.00	\$ 1,150.00	\$ 1,150.00	\$ 780.00	\$ 780.00	\$ 3,000.00	\$ 3,000.00
66.	REMOVE TEMP 18" TERMINAL CLEANOUT AND JOIN EXISTING 18" PVC SEWER LINE	1	EA	\$ 482.00	\$ 482.00	\$ 2,350.00	\$ 2,350.00	\$ 4,000.00	\$ 4,000.00	\$ 3,500.00	\$ 3,500.00	\$ 5,000.00	\$ 5,000.00
67.	CONSTRUCT 60" MANHOLE PER IRWD STD S-1	2	EA	\$ 8,580.00	\$ 17,160.00	\$ 5,650.00	\$ 11,300.00	\$ 7,600.00	\$ 15,200.00	\$ 9,000.00	\$ 18,000.00	\$ 12,000.00	\$ 24,000.00
SANITARY SEWER - IRWD CAPITAL - SUBTOTAL (SECTION J)				\$ 146,382.00		\$ 137,702.00		\$ 193,055.00		\$ 218,882.00		\$ 240,740.00	
K. RECYCLED WATER - IRWD CAPITAL - "LV" ST													
68.	CONST 12" AWWA C-800 PURPLE PVC, DR14, W/ TRENCH & BEDDING PER IRWD STD NO. W-17	2,080	LF	\$ 51.00	\$ 106,080.00	\$ 49.00	\$ 101,920.00	\$ 50.00	\$ 104,000.00	\$ 75.00	\$ 156,000.00	\$ 85.00	\$ 135,200.00
69.	INSTALL 12" D.I.P., CL 350, FLGD, W/ TRENCH & BEDDING PER IRWD STD PER IRWD STD NO. W-17	6	LF	\$ 150.00	\$ 900.00	\$ 250.00	\$ 1,500.00	\$ 65.00	\$ 390.00	\$ 95.00	\$ 570.00	\$ 85.00	\$ 510.00
70.	INSTALL 12" BUTTERFLY VALVE, CL 150B, VALVE BOX PER IRWD STD. W-22	2	EA	\$ 2,573.00	\$ 5,146.00	\$ 4,100.00	\$ 8,200.00	\$ 3,550.00	\$ 7,100.00	\$ 5,000.00	\$ 10,000.00	\$ 5,000.00	\$ 10,000.00
71.	INSTALL 4" RESILIENT WEDGE GATE VALVE, CL 150, VALVE BOX PER IRWD STD. W-22	2	EA	\$ 1,370.00	\$ 2,740.00	\$ 1,460.00	\$ 2,920.00	\$ 1,250.00	\$ 2,500.00	\$ 1,100.00	\$ 2,200.00	\$ 3,000.00	\$ 6,000.00
72.	INSTALL 12"x12"x4" D.I. TEE, FLGD, W/ THRUST BLOCK PER IRWD STD NO. W-18	2	EA	\$ 500.00	\$ 1,000.00	\$ 850.00	\$ 1,700.00	\$ 1,500.00	\$ 3,000.00	\$ 1,200.00	\$ 2,400.00	\$ 800.00	\$ 1,600.00
73.	INSTALL 12" D.I. BEND, PO&P, W/ THRUST BLOCK PER IRWD STD NO. W-18	2	EA	\$ 250.00	\$ 500.00	\$ 475.00	\$ 950.00	\$ 670.00	\$ 1,340.00	\$ 800.00	\$ 1,600.00	\$ 800.00	\$ 1,600.00
74.	INSTALL 12" D.I. BEND, FOXE, W/ THRUST BLOCK PER IRWD STD NO. W-18	1	EA	\$ 350.00	\$ 350.00	\$ 700.00	\$ 700.00	\$ 990.00	\$ 990.00	\$ 850.00	\$ 850.00	\$ 600.00	\$ 600.00
75.	INSTALL 12" D.I. BEND, FOXM, W/ THRUST BLOCK PER IRWD STD NO. W-18	1	EA	\$ 400.00	\$ 400.00	\$ 675.00	\$ 675.00	\$ 940.00	\$ 940.00	\$ 1,050.00	\$ 1,050.00	\$ 800.00	\$ 800.00
76.	INSTALL 12" D.I. FOXPO ADAPTER	3	EA	\$ 150.00	\$ 450.00	\$ 400.00	\$ 1,200.00	\$ 1,360.00	\$ 4,050.00	\$ 750.00	\$ 2,250.00	\$ 800.00	\$ 1,600.00
77.	INSTALL 4" D.I. BLIND FLANGE	2	EA	\$ 100.00	\$ 200.00	\$ 105.00	\$ 210.00	\$ 220.00	\$ 440.00	\$ 350.00	\$ 700.00	\$ 600.00	\$ 1,200.00
78.	INSTALL 2" AIR RELEASE AND VACUUM RELIEF VALVE ASSEMBLY PER IRWD STD. NO. W-11	3	EA	\$ 4,602.00	\$ 13,806.00	\$ 5,600.00	\$ 16,800.00	\$ 4,820.00	\$ 13,560.00	\$ 4,000.00	\$ 12,000.00	\$ 5,000.00	\$ 15,000.00
79.	INSTALL 4" BLOW OFF ASSEMBLY PER IRWD STD. DWG. W-14	1	EA	\$ 2,170.00	\$ 2,170.00	\$ 9,250.00	\$ 9,250.00	\$ 7,500.00	\$ 7,500.00	\$ 6,500.00	\$ 6,500.00	\$ 6,500.00	\$ 6,500.00
80.	REMOVE TEMP FLUSH-OUT AND JOIN EXISTING 12" PVC RECYCLED WATER LINE	2	EA	\$ 900.00	\$ 1,800.00	\$ 2,600.00	\$ 5,200.00	\$ 3,895.00	\$ 7,770.00	\$ 3,500.00	\$ 7,000.00	\$ 5,000.00	\$ 10,000.00
RECYCLED WATER - IRWD CAPITAL - SUBTOTAL (SECTION K)				\$ 135,842.00		\$ 181,805.00		\$ 183,810.00		\$ 203,810.00		\$ 189,980.00	
TOTAL - IRWD CAPITAL PRICE (SECTIONS I-K)				\$ 303,484.00		\$ 310,507.00		\$ 387,265.00		\$ 512,502.00		\$ 445,038.00	

CONTRACT PRICE SCHEDULE
HERITAGE FIELDS - DISTRICT 1 - JOINT BACKBONE IMPROVEMENTS
 CITY OF IRVINE, ORANGE COUNTY, CALIFORNIA
 DISTRICT 1, GROUP 2, UNDERGROUND IMPROVEMENTS
 IRWD CAPITAL IMPROVEMENTS SANITARY SEWER - IRWD CODE 6032

**C STR IRWD CODE 6032
 CAPITAL IMPROVEMENTS BID SPREAD**

Item	Description	Estimated Quantity	Unit	ENGINEER'S EST - H&A		LOW BID - LEATHERWOOD		L&S		KENNEDY		FYDAQ	
				Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
III. IRWD CAPITAL D1 SOUTH													
WET UTILITY IMPROVEMENTS													
Construction Plans for the Irvine Ranch Water District, PA 51, Great Park Neighborhoods, Capital Improvements, "C" Street (from LV Street to Trabuco Road) 18" Sanitary Sewer, Capital Project No. 21165 (5016) - IRWD Code 6032													
L. GENERAL - IRWD CAPITAL - MILESTONE 1 - "C" ST SEG I SS													
81.	MOBILIZATION (NOT TO EXCEED 2% OF CONTRACT PRICE SECTIONS L-M)	1	LS	\$ 4,600.00	\$ 4,600.00	\$ 2,800.00	\$ 2,800.00	\$ 4,800.00	\$ 4,800.00	\$ 4,200.00	\$ 4,200.00	\$ 3,000.00	\$ 3,000.00
82.	PAYMENT AND PERFORMANCE BONDS (SECTIONS L-M)	1	LS	\$ 2,300.00	\$ 2,300.00	\$ 2,400.00	\$ 2,400.00	\$ 4,000.00	\$ 4,000.00	\$ 3,200.00	\$ 3,200.00	\$ 3,680.00	\$ 3,680.00
83.	STORM WATER POLLUTION PREVENTION PLAN & BMPS (SECTIONS L-M)	1	LS	\$ 3,680.00	\$ 3,680.00	\$ 5,000.00	\$ 5,000.00	\$ 2,000.00	\$ 2,000.00	\$ 1,500.00	\$ 1,500.00	\$ 2,500.00	\$ 2,500.00
84.	DEVELOP CONSTRUCTION WATER (SECTIONS L-M)	1	LS	\$ 3,450.00	\$ 3,450.00	\$ 500.00	\$ 500.00	\$ 1,100.00	\$ 1,100.00	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00
85.	TRAFFIC CONTROL & DAILY STREET SWEEPING (SECTIONS L-M)	1	LS	\$ 2,300.00	\$ 2,300.00	\$ 1,000.00	\$ 1,000.00	\$ 1,750.00	\$ 1,750.00	\$ 1,750.00	\$ 1,750.00	\$ -	\$ -
86.	WELL PROTECTION (K-RAIL AND SECURITY FENCING)	1	EA	\$ 1,000.00	\$ 1,000.00	\$ 3,000.00	\$ 3,000.00	\$ 2,500.00	\$ 2,500.00	\$ 1,800.00	\$ 1,800.00	\$ 5,000.00	\$ 5,000.00
GENERAL - IRWD CAPITAL - SUBTOTAL (SECTION L)					\$ 17,330.00		\$ 14,700.00		\$ 16,150.00		\$ 14,450.00		\$ 16,880.00
M. SANITARY SEWER - IRWD CAPITAL - MILESTONE 1 - "C" ST SEG I SS													
87.	CONSTRUCT 18" SDR-35 PVC DEEP (>10 FT DEPTH) SEWER MAIN, BEDDING PER IRWD STD NO. S-6	125	LF	\$ 78.00	\$ 9,750.00	\$ 75.00	\$ 9,375.00	\$ 132.00	\$ 16,500.00	\$ 125.00	\$ 15,625.00	\$ 120.00	\$ 15,000.00
88.	CONSTRUCT 18" SDR-35 PVC DEEP (>12 FT DEPTH) SEWER MAIN, BEDDING PER IRWD STD NO. S-6	205	LF	\$ 131.00	\$ 26,855.00	\$ 80.00	\$ 16,400.00	\$ 155.00	\$ 31,775.00	\$ 185.00	\$ 38,825.00	\$ 140.00	\$ 28,700.00
89.	CONSTRUCT 18" SDR-35 PVC DEEP (>15 FT DEPTH) SEWER MAIN, BEDDING PER IRWD STD NO. S-6	880	LF	\$ 180.00	\$ 158,400.00	\$ 88.00	\$ 77,440.00	\$ 163.00	\$ 143,440.00	\$ 215.00	\$ 189,200.00	\$ 160.00	\$ 140,800.00
90.	CONSTRUCT 60" MANHOLE PER IRWD STD S-1	4	EA	\$ 8,580.00	\$ 34,320.00	\$ 6,350.00	\$ 25,400.00	\$ 8,100.00	\$ 32,400.00	\$ 9,500.00	\$ 38,000.00	\$ 12,000.00	\$ 48,000.00
91.	REMOVE TEMP 12" TERMINAL CLEANOUT AND JOIN EXISTING SEWER	2	EA	\$ 462.00	\$ 924.00	\$ 1,500.00	\$ 3,000.00	\$ 2,800.00	\$ 5,600.00	\$ 3,500.00	\$ 7,000.00	\$ 5,000.00	\$ 10,000.00
SANITARY SEWER - IRWD CAPITAL - SUBTOTAL (SECTION M)					\$ 230,249.00		\$ 131,615.00		\$ 229,715.00		\$ 283,650.00		\$ 242,500.00
SUBTOTAL PRICE - IRWD CAPITAL - MILESTONE 1 (SECTIONS L-M)					\$ 247,579.00		\$ 146,315.00		\$ 245,965.00		\$ 298,100.00		\$ 259,180.00
N. GENERAL - IRWD CAPITAL - MILESTONE 2 - "C" ST SEG I SS													
92.	MOBILIZATION (NOT TO EXCEED 2% OF CONTRACT PRICE SECTIONS N-O)	1	LS	\$ 100.00	\$ 100.00	\$ 200.00	\$ 200.00	\$ 190.00	\$ 190.00	\$ 100.00	\$ 100.00	\$ 3,000.00	\$ 3,000.00
93.	PAYMENT AND PERFORMANCE BONDS (SECTIONS N-O)	1	LS	\$ 50.00	\$ 50.00	\$ 100.00	\$ 100.00	\$ 190.00	\$ 190.00	\$ 138.00	\$ 138.00	\$ 286.00	\$ 286.00
94.	STORM WATER POLLUTION PREVENTION PLAN & BMPS (SECTIONS N-O)	1	LS	\$ 80.00	\$ 80.00	\$ 100.00	\$ 100.00	\$ 200.00	\$ 200.00	\$ 650.00	\$ 650.00	\$ 2,500.00	\$ 2,500.00
95.	DEVELOP CONSTRUCTION WATER (SECTIONS N-O)	1	LS	\$ 75.00	\$ 75.00	\$ 100.00	\$ 100.00	\$ 200.00	\$ 200.00	\$ 750.00	\$ 750.00	\$ 2,500.00	\$ 2,500.00
96.	TRAFFIC CONTROL & DAILY STREET SWEEPING (SECTIONS N-O)	1	LS	\$ 75.00	\$ 75.00	\$ 500.00	\$ 500.00	\$ 1,550.00	\$ 1,550.00	\$ 1,000.00	\$ 1,000.00	\$ -	\$ -
GENERAL - IRWD CAPITAL - MILESTONE 2 - SUBTOTAL (SECTION N)					\$ 380.00		\$ 1,000.00		\$ 2,330.00		\$ 2,638.00		\$ 6,286.00
O. RECONSTRUCTION - IRWD CAPITAL - MILESTONE 2 - "C" ST SEG I SS													
97.	RAISE MANHOLES TO FINAL GRADE	4	EA	\$ 500.00	\$ 2,000.00	\$ 550.00	\$ 2,200.00	\$ 550.00	\$ 2,200.00	\$ 550.00	\$ 2,200.00	\$ 450.00	\$ 1,800.00
98.	ALL ELSE REQUIRED TO FINALIZE SANITARY SEWER FOR IRWD ACCEPTANCE	1	LS	\$ 2,000.00	\$ 2,000.00	\$ 7,000.00	\$ 7,000.00	\$ 5,400.00	\$ 5,400.00	\$ 4,500.00	\$ 4,500.00	\$ 10,000.00	\$ 10,000.00
SANITARY SEWER - IRWD CAPITAL - MILESTONE 2 - SUBTOTAL (SECTION O)					\$ 4,000.00		\$ 9,200.00		\$ 7,800.00		\$ 6,700.00		\$ 11,800.00
SUBTOTAL IRWD CAPITAL PRICE - MILESTONE 2 (SECTIONS N-O)					\$ 4,380.00		\$ 10,200.00		\$ 9,930.00		\$ 9,338.00		\$ 20,086.00
TOTAL - IRWD CAPITAL PRICE (SECTIONS L-O)					\$ 251,959.00		\$ 156,515.00		\$ 255,795.00		\$ 307,438.00		\$ 279,266.00

IRVINE RANCH WATER DISTRICT

EXHIBIT "H"

Expenditure Authorization

Project Name: PA51 RIDGE VALLEY, MARINE WAY TO TRABUCO - SEWER
EPMS Project No: 21141 **EA No:** 1
Oracle Project No: 4267
Project Manager: CORTEZ, MALCOLM
Project Engineer: LEW, KELLY
Request Date: May 1, 2014

ID Split: Miscellaneous

Improvement District (ID) Allocations		
ID No.	Allocation %	Source of Funds
212	100.0	BONDS YET TO BE SOLD**
Total	100.0%	

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	<u>\$1,064,800</u>
Total EA Requests:	\$1,064,800
Previously Approved Budget:	\$162,800
Budget Adjustment Requested this EA:	<u>\$902,000</u>
Updated Budget:	\$1,064,800
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	30,000	0	30,000	22,000	8,000	30,000	1/13	4/14
ENGINEERING DESIGN - OUTSIDE	80,000	0	80,000	70,000	10,000	80,000	1/13	4/14
DESIGN STAFF FIELD SUPPORT	15,000	0	15,000	10,000	5,000	15,000	1/13	4/14
ENGINEERING - CA&I IRWD	50,000	0	50,000	40,000	10,000	50,000	5/14	6/15
ENGINEERING - CA&I OUTSIDE	100,000	0	100,000	92,000	8,000	100,000	5/14	6/15
CONSTRUCTION FIELD SUPPORT	20,000	0	20,000	15,000	5,000	20,000	5/14	6/15
CONSTRUCTION	670,000	0	670,000	570,000	100,000	670,000	5/14	6/15
LEGAL	3,000	0	3,000	1,000	2,000	3,000	1/13	6/15
Contingency - 10.00% Subtotal	\$96,800	\$0	\$96,800	\$82,000	\$14,800	\$96,800		
Subtotal (Direct Costs)	\$1,064,800	\$0	\$1,064,800	\$902,000	\$162,800	\$1,064,800		
Estimated G/A - 170.00% of direct labor*	\$195,500	\$0	\$195,500	\$147,900	\$47,600	\$195,500		
Total	\$1,260,300	\$0	\$1,260,300	\$1,049,900	\$210,400	\$1,260,300		
Direct Labor	\$115,000	\$0	\$115,000	\$87,000	\$28,000	\$115,000		

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

EA Originator: Kelly Lew 5/5/14
Department Director: Kevin J. Burt 5/8/14
Finance: [Signature] 5/14/14
Board/General Manager: _____

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

IRVINE RANCH WATER DISTRICT

Expenditure Authorization

Project Name: PA51 LN ST FROM C ST TO LY ST DW
 EPMS Project No: 11719 EA No: 1
 Oracle Project No: 4620
 Project Manager: CORTEZ, MALCOLM
 Project Engineer: LEW, KELLY
 Request Date: May 1, 2014

ID Split: Miscellaneous

Improvement District (ID) Allocations

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

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$172,700
Total EA Requests:	\$172,700
Previously Approved Budget:	\$0
Budget Adjustment Requested this EA:	\$172,700
Updated Budget:	\$172,700
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	5,000	0	5,000	5,000	0	5,000	6/13	6/14
ENGINEERING DESIGN - OUTSIDE	10,000	0	10,000	10,000	0	10,000	6/13	6/14
DESIGN STAFF FIELD SUPPORT	5,000	0	5,000	5,000	0	5,000	6/13	6/14
ENGINEERING - CA&I IRWD	10,000	0	10,000	10,000	0	10,000	7/14	6/15
ENGINEERING - CA&I OUTSIDE	30,000	0	30,000	30,000	0	30,000	7/14	6/15
CONSTRUCTION FIELD SUPPORT	5,000	0	5,000	5,000	0	5,000	7/14	6/15
CONSTRUCTION	90,000	0	90,000	90,000	0	90,000	7/14	6/15
LEGAL	2,000	0	2,000	2,000	0	2,000	6/13	6/15
Contingency - 10.00% Subtotal	\$15,700	\$0	\$15,700	\$15,700	\$0	\$15,700		
Subtotal (Direct Costs)	\$172,700	\$0	\$172,700	\$172,700	\$0	\$172,700		
Estimated G/A - 170.00% of direct labor*	\$42,500	\$0	\$42,500	\$42,500	\$0	\$42,500		
Total	\$215,200	\$0	\$215,200	\$215,200	\$0	\$215,200		
Direct Labor	\$25,000	\$0	\$25,000	\$25,000	\$0	\$25,000		

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

EA Originator:

Kelly Lew 5/5/14

Department Director:

Kevin L. Benton 5/8/14

Finance:

[Signature] 5/14/14

Board/General Manager:

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$220,000 further described in the attached staff report and additional documents, if any, which are hereby incorporated into the original intent to reimburse costs of the above-captioned project is made under Treasury Regulation Section 1.150-2.

IRVINE RANCH WATER DISTRICT

Expenditure Authorization

Project Name: PA51 LN ST FROM C ST TO LY ST RW
 EPMS Project No: 31719 EA No: 1
 Oracle Project No: 4621
 Project Manager: CORTEZ, MALCOLM
 Project Engineer: LEW, KELLY
 Request Date: May 1, 2014

ID Split: Miscellaneous

Improvement District (ID) Allocations

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

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$105,600
Total EA Requests:	\$105,600
Previously Approved Budget:	\$0
Budget Adjustment Requested this EA:	\$105,600
Updated Budget:	\$105,600
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	5,000	0	5,000	5,000	0	5,000	6/13	6/14
ENGINEERING DESIGN - OUTSIDE	10,000	0	10,000	10,000	0	10,000	6/13	6/14
DESIGN STAFF FIELD SUPPORT	2,000	0	2,000	2,000	0	2,000	6/13	6/14
ENGINEERING - CA&I IRWD	10,000	0	10,000	10,000	0	10,000	7/14	6/15
ENGINEERING - CA&I OUTSIDE	15,000	0	15,000	15,000	0	15,000	7/14	6/15
CONSTRUCTION FIELD SUPPORT	2,000	0	2,000	2,000	0	2,000	7/14	6/15
CONSTRUCTION	50,000	0	50,000	50,000	0	50,000	7/14	6/15
LEGAL	2,000	0	2,000	2,000	0	2,000	6/13	6/15
Contingency - 10.00% Subtotal	\$9,600	\$0	\$9,600	\$9,600	\$0	\$9,600		
Subtotal (Direct Costs)	\$105,600	\$0	\$105,600	\$105,600	\$0	\$105,600		
Estimated G/A - 170.00% of direct labor*	\$32,300	\$0	\$32,300	\$32,300	\$0	\$32,300		
Total	\$137,900	\$0	\$137,900	\$137,900	\$0	\$137,900		
Direct Labor	\$19,000	\$0	\$19,000	\$19,000	\$0	\$19,000		

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

EA Originator:

Kelly Lew 5/5/14

Department Director:

Kevin J. Burton 5/18/14

Finance:

[Signature] 5/14/14

Board/General Manager:

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of additional documents, if any, which are hereby incorporated into the project is further described in the attached staff report and subject to the official intent to reimburse costs of the above-captioned project is made under Treasury Regulation Section 1.1

IRVINE RANCH WATER DISTRICT

Expenditure Authorization

Project Name: PA51 LQ ST FROM O ST TO LY ST SEWER
 EPMS Project No: 21156 EA No: 1
 Oracle Project No: 4648
 Project Manager: CORTEZ, MALCOLM
 Project Engineer: LEW, KELLY
 Request Date: May 1, 2014

ID Split: Miscellaneous

Improvement District (ID) Allocations

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

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$255,200
Total EA Requests:	\$255,200
Previously Approved Budget:	\$0
Budget Adjustment Requested this EA:	\$255,200
Updated Budget:	\$255,200
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	10,000	0	10,000	10,000	0	10,000	7/13	6/14
ENGINEERING DESIGN - OUTSIDE	20,000	0	20,000	20,000	0	20,000	7/13	6/14
DESIGN STAFF FIELD SUPPORT	5,000	0	5,000	5,000	0	5,000	7/13	6/14
ENGINEERING - CA&I IRWD	10,000	0	10,000	10,000	0	10,000	7/14	6/15
ENGINEERING - CA&I OUTSIDE	50,000	0	50,000	50,000	0	50,000	7/14	6/15
CONSTRUCTION FIELD SUPPORT	5,000	0	5,000	5,000	0	5,000	7/14	6/15
CONSTRUCTION	130,000	0	130,000	130,000	0	130,000	7/14	6/15
LEGAL	2,000	0	2,000	2,000	0	2,000	7/13	6/15
Contingency - 10.00% Subtotal	\$23,200	\$0	\$23,200	\$23,200	\$0	\$23,200		
Subtotal (Direct Costs)	\$255,200	\$0	\$255,200	\$255,200	\$0	\$255,200		
Estimated G/A - 170.00% of direct labor*	\$51,000	\$0	\$51,000	\$51,000	\$0	\$51,000		
Total	\$306,200	\$0	\$306,200	\$306,200	\$0	\$306,200		
Direct Labor	\$30,000	\$0	\$30,000	\$30,000	\$0	\$30,000		

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

EA Originator:

Kelly Lew 5/5/14

Department Director:

Kevin J. Burton 5/8/14

Finance:

[Signature] 5/14/14

Board/General Manager:

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$1,000,000. The source of such funds is further described in the attached staff report and of official intent to reimburse costs of the above-captioned project is made under Treasury Regulation Section 1.15

IRVINE RANCH WATER DISTRICT

Expenditure Authorization

Project Name: PA51 LQ ST FROM O ST TO LY ST RW
 EPMS Project No: 31156 EA No: 1
 Oracle Project No: 4649
 Project Manager: CORTEZ, MALCOLM
 Project Engineer: LEW, KELLY
 Request Date: May 1, 2014

ID Split: Miscellaneous

Improvement District (ID) Allocations

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

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$78,100
Total EA Requests:	\$78,100
Previously Approved Budget:	\$0
Budget Adjustment Requested this EA:	\$78,100
Updated Budget:	\$78,100
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	5,000	0	5,000	5,000	0	5,000	7/13	6/14
ENGINEERING DESIGN - OUTSIDE	5,000	0	5,000	5,000	0	5,000	7/13	6/14
DESIGN STAFF FIELD SUPPORT	2,000	0	2,000	2,000	0	2,000	7/13	6/14
ENGINEERING - CA&I IRWD	5,000	0	5,000	5,000	0	5,000	7/14	6/15
ENGINEERING - CA&I OUTSIDE	10,000	0	10,000	10,000	0	10,000	7/14	6/15
CONSTRUCTION FIELD SUPPORT	2,000	0	2,000	2,000	0	2,000	7/14	6/15
CONSTRUCTION	40,000	0	40,000	40,000	0	40,000	7/14	6/15
LEGAL	2,000	0	2,000	2,000	0	2,000	7/13	6/15
Contingency - 10.00% Subtotal	\$7,100	\$0	\$7,100	\$7,100	\$0	\$7,100		
Subtotal (Direct Costs)	\$78,100	\$0	\$78,100	\$78,100	\$0	\$78,100		
Estimated G/A - 170.00% of direct labor*	\$23,800	\$0	\$23,800	\$23,800	\$0	\$23,800		
Total	\$101,900	\$0	\$101,900	\$101,900	\$0	\$101,900		
Direct Labor	\$14,000	\$0	\$14,000	\$14,000	\$0	\$14,000		

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

EA Originator:

Kelly Lew 5/5/14

Department Director:

Kevin J. Burton 5/8/14

Finance:

[Signature] 5/14/14

Board/General Manager:

** IRWD hereby declares that it reasonably expects these expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount additional documents, if any, which are hereby incorporated by reference. The project is further described in the attached staff report and the project is made under Treasury Regulation Section

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tion of official intent to reimburse costs of the above-captioned

IRVINE RANCH WATER DISTRICT

Expenditure Authorization

Project Name: PA51 C ST FROM TRABUCO RD TO LQ ST SEWER
 EPMS Project No: 21158 EA No: 1
 Oracle Project No: 4653
 Project Manager: CORTEZ, MALCOLM
 Project Engineer: LEW, KELLY
 Request Date: May 1, 2014

ID Split: Miscellaneous

Improvement District (ID) Allocations

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

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$403,700
Total EA Requests:	\$403,700
Previously Approved Budget:	\$0
Budget Adjustment Requested this EA:	\$403,700
Updated Budget:	\$403,700
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	20,000	0	20,000	20,000	0	20,000	7/13	4/14
ENGINEERING DESIGN - OUTSIDE	30,000	0	30,000	30,000	0	30,000	7/13	4/14
DESIGN STAFF FIELD SUPPORT	10,000	0	10,000	10,000	0	10,000	7/13	4/14
ENGINEERING - CA&I IRWD	25,000	0	25,000	25,000	0	25,000	5/14	6/15
ENGINEERING - CA&I OUTSIDE	50,000	0	50,000	50,000	0	50,000	5/14	6/15
CONSTRUCTION FIELD SUPPORT	10,000	0	10,000	10,000	0	10,000	5/14	6/15
CONSTRUCTION	220,000	0	220,000	220,000	0	220,000	5/14	6/15
LEGAL	2,000	0	2,000	2,000	0	2,000	7/13	6/15
Contingency - 10.00% Subtotal	\$36,700	\$0	\$36,700	\$36,700	\$0	\$36,700		
Subtotal (Direct Costs)	\$403,700	\$0	\$403,700	\$403,700	\$0	\$403,700		
Estimated G/A - 170.00% of direct labor*	\$110,500	\$0	\$110,500	\$110,500	\$0	\$110,500		
Total	\$514,200	\$0	\$514,200	\$514,200	\$0	\$514,200		
Direct Labor	\$65,000	\$0	\$65,000	\$65,000	\$0	\$65,000		

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

EA Originator:

Kelley Lew 5/5/14

Department Director:

Kevin L. Burton 5/18/14

Finance:

[Signature] 5/14/14

Board/General Manager:

** IRWD hereby declares that it reasonably expects those expenditures marked with asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$525,000 to be further described in the attached staff report and additional documents, if any, which are hereby incorporated by reference. The official intent to reimburse costs of the above-captioned project is made under Treasury Regulation Section 1.150-2.

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IRVINE RANCH WATER DISTRICT

Expenditure Authorization

Project Name: PA51 C ST FROM LQ ST TO O ST DW
 EPMS Project No: 11721 EA No: 1
 Oracle Project No: 4645
 Project Manager: CORTEZ, MALCOLM
 Project Engineer: LEW, KELLY
 Request Date: May 1, 2014

ID Split: Miscellaneous
 Improvement District (ID) Allocations
 ID No. Allocation % Source of Funds

112	100.0	BONDS YET TO BE SOLD**
Total	100.0%	

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$161,700
Total EA Requests:	\$161,700
Previously Approved Budget:	\$0
Budget Adjustment Requested this EA:	\$161,700
Updated Budget:	\$161,700
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	5,000	0	5,000	5,000	0	5,000	7/13	6/14
ENGINEERING DESIGN - OUTSIDE	15,000	0	15,000	15,000	0	15,000	7/13	6/14
DESIGN STAFF FIELD SUPPORT	5,000	0	5,000	5,000	0	5,000	7/13	6/14
ENGINEERING - CA&I IRWD	15,000	0	15,000	15,000	0	15,000	7/14	6/15
ENGINEERING - CA&I OUTSIDE	20,000	0	20,000	20,000	0	20,000	7/14	6/15
CONSTRUCTION FIELD SUPPORT	5,000	0	5,000	5,000	0	5,000	7/14	6/15
CONSTRUCTION	80,000	0	80,000	80,000	0	80,000	7/14	6/15
LEGAL	2,000	0	2,000	2,000	0	2,000	7/13	6/15
Contingency - 10.00% Subtotal	\$14,700	\$0	\$14,700	\$14,700	\$0	\$14,700		
Subtotal (Direct Costs)	\$161,700	\$0	\$161,700	\$161,700	\$0	\$161,700		
Estimated G/A - 170.00% of direct labor*	\$51,000	\$0	\$51,000	\$51,000	\$0	\$51,000		
Total	\$212,700	\$0	\$212,700	\$212,700	\$0	\$212,700		
Direct Labor	\$30,000	\$0	\$30,000	\$30,000	\$0	\$30,000		

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

EA Originator: Kelly Lew 5/5/14
 Department Director: Kevin L. Bunker 5/8/14
 Finance: [Signature] 5/14/14
 Board/General Manager: _____

** IRWD hereby declares that it reasonably expects those costs incurred by IRWD in a maximum principal amount of \$217,000 additional documents, if any, which are hereby incorporate project is made under Treasury Regulation Section 1.150-2.

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Costs to be reimbursed with proceeds of future debt to be is further described in the attached staff report and official intent to reimburse costs of the above-captioned

IRVINE RANCH WATER DISTRICT

Expenditure Authorization

Project Name: PA51 C ST FROM LQ ST TO O ST RW
EPMS Project No: 31721 **EA No:** 1
Oracle Project No: 4646
Project Manager: CORTEZ, MALCOLM
Project Engineer: LEW, KELLY
Request Date: May 1, 2014

ID Split: Miscellaneous

Improvement District (ID) Allocations

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

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$266,200
Total EA Requests:	\$266,200
Previously Approved Budget:	\$0
Budget Adjustment Requested this EA:	\$266,200
Updated Budget:	\$266,200
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	10,000	0	10,000	10,000	0	10,000	7/13	6/14
ENGINEERING DESIGN - OUTSIDE	15,000	0	15,000	15,000	0	15,000	7/13	6/14
DESIGN STAFF FIELD SUPPORT	5,000	0	5,000	5,000	0	5,000	7/13	6/14
ENGINEERING - CA&I IRWD	15,000	0	15,000	15,000	0	15,000	7/14	6/15
ENGINEERING - CA&I OUTSIDE	40,000	0	40,000	40,000	0	40,000	7/14	6/15
CONSTRUCTION FIELD SUPPORT	5,000	0	5,000	5,000	0	5,000	7/14	6/15
CONSTRUCTION	150,000	0	150,000	150,000	0	150,000	7/14	6/15
LEGAL	2,000	0	2,000	2,000	0	2,000	7/13	6/15
Contingency - 10.00% Subtotal	\$24,200	\$0	\$24,200	\$24,200	\$0	\$24,200		
Subtotal (Direct Costs)	\$266,200	\$0	\$266,200	\$266,200	\$0	\$266,200		
Estimated G/A - 170.00% of direct labor*	\$59,500	\$0	\$59,500	\$59,500	\$0	\$59,500		
Total	\$325,700	\$0	\$325,700	\$325,700	\$0	\$325,700		
Direct Labor	\$35,000	\$0	\$35,000	\$35,000	\$0	\$35,000		

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

EA Originator:

Kelly Lew 5/5/14

Department Director:

Kevin L. Burt 5/8/14

Finance:

[Signature] 5/14/14

Board/General Manager:

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$333, additional documents, if any, which are hereby incorporated project is made under Treasury Regulation Section 1.150-2.

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further described in the attached staff report and official intent to reimburse costs of the above-captioned

IRVINE RANCH WATER DISTRICT

Expenditure Authorization

Project Name: PA51 LV ST FROM RIDGE VALLEY TO LY ST 18" SEWER
 EPMS Project No: 21159 EA No: 1
 Oracle Project No: 4824
 Project Manager: CORTEZ, MALCOLM
 Project Engineer: LEW, KELLY
 Request Date: May 1, 2014

ID Split: Miscellaneous

Improvement District (ID) Allocations

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

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$310,200
Total EA Requests:	\$310,200
Previously Approved Budget:	\$0
Budget Adjustment Requested this EA:	\$310,200
Updated Budget:	\$310,200
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	20,000	0	20,000	20,000	0	20,000	8/13	6/14
ENGINEERING DESIGN - OUTSIDE	20,000	0	20,000	20,000	0	20,000	8/13	6/14
DESIGN STAFF FIELD SUPPORT	10,000	0	10,000	10,000	0	10,000	8/13	6/14
ENGINEERING - CA&I IRWD	20,000	0	20,000	20,000	0	20,000	7/14	6/15
ENGINEERING - CA&I OUTSIDE	30,000	0	30,000	30,000	0	30,000	7/14	6/15
CONSTRUCTION FIELD SUPPORT	10,000	0	10,000	10,000	0	10,000	7/14	6/15
CONSTRUCTION	170,000	0	170,000	170,000	0	170,000	7/14	6/15
LEGAL	2,000	0	2,000	2,000	0	2,000	8/13	6/15
Contingency - 10.00% Subtotal	\$28,200	\$0	\$28,200	\$28,200	\$0	\$28,200		
Subtotal (Direct Costs)	\$310,200	\$0	\$310,200	\$310,200	\$0	\$310,200		
Estimated G/A - 170.00% of direct labor*	\$102,000	\$0	\$102,000	\$102,000	\$0	\$102,000		
Total	\$412,200	\$0	\$412,200	\$412,200	\$0	\$412,200		
Direct Labor	\$60,000	\$0	\$60,000	\$60,000	\$0	\$60,000		

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

EA Originator:

Kelley Lew

5/5/14

Department Director:

Karin L. Burton

5/8/14

Finance:

[Signature]

5/14/14

Board/General Manager:

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$42 additional documents, if any, which are hereby incorporated into this authorization. The official intent to reimburse costs of the above-captioned project is made under Treasury Regulation Section 1.1502-10.

IRVINE RANCH WATER DISTRICT

Expenditure Authorization

Project Name: PA51 LV ST FROM RIDGE VALLEY TO LY ST 12" RW
EPMS Project No: 31159 **EA No:** 1
Oracle Project No: 4825
Project Manager: CORTEZ, MALCOLM
Project Engineer: LEW, KELLY
Request Date: May 1, 2014

ID Split: Miscellaneous

Improvement District (ID) Allocations

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

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$321,200
Total EA Requests:	\$321,200
Previously Approved Budget:	\$0
Budget Adjustment Requested this EA:	\$321,200
Updated Budget:	\$321,200
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	15,000	0	15,000	15,000	0	15,000	8/13	6/14
ENGINEERING DESIGN - OUTSIDE	25,000	0	25,000	25,000	0	25,000	8/13	6/14
DESIGN STAFF FIELD SUPPORT	10,000	0	10,000	10,000	0	10,000	8/13	6/14
ENGINEERING - CA&I IRWD	20,000	0	20,000	20,000	0	20,000	7/14	6/15
ENGINEERING - CA&I OUTSIDE	30,000	0	30,000	30,000	0	30,000	7/14	6/15
CONSTRUCTION FIELD SUPPORT	10,000	0	10,000	10,000	0	10,000	7/14	6/15
CONSTRUCTION	180,000	0	180,000	180,000	0	180,000	7/14	6/15
LEGAL	2,000	0	2,000	2,000	0	2,000	8/13	6/15
Contingency - 10.00% Subtotal	\$29,200	\$0	\$29,200	\$29,200	\$0	\$29,200		
Subtotal (Direct Costs)	\$321,200	\$0	\$321,200	\$321,200	\$0	\$321,200		
Estimated G/A - 170.00% of direct labor*	\$93,500	\$0	\$93,500	\$93,500	\$0	\$93,500		
Total	\$414,700	\$0	\$414,700	\$414,700	\$0	\$414,700		
Direct Labor	\$55,000	\$0	\$55,000	\$55,000	\$0	\$55,000		

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

EA Originator:

Kelly Lew 5/5/14

Department Director:

Kevin L. Burton 5/8/14

Finance:

[Signature] 5/14/14

Board/General Manager:

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$4 additional documents, if any, which are hereby incorporated into this authorization. It is further described in the attached staff report and is the official intent to reimburse costs of the above-captioned project is made under Treasury Regulation Section 1.150

H-10

IRVINE RANCH WATER DISTRICT

Expenditure Authorization

Project Name: PA51 C ST FROM LV ST TO TRABUCO SEWER
 EPMS Project No: 21165 EA No: 1
 Oracle Project No: 5016
 Project Manager: CORTEZ, MALCOLM
 Project Engineer: LEW, KELLY
 Request Date: May 1, 2014

ID Split: Miscellaneous

Improvement District (ID) Allocations

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

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$370,700
Total EA Requests:	\$370,700
Previously Approved Budget:	\$0
Budget Adjustment Requested this EA:	\$370,700
Updated Budget:	\$370,700
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	15,000	0	15,000	15,000	0	15,000	11/13	6/14
ENGINEERING DESIGN - OUTSIDE	30,000	0	30,000	30,000	0	30,000	11/13	6/14
DESIGN STAFF FIELD SUPPORT	10,000	0	10,000	10,000	0	10,000	11/13	6/14
ENGINEERING - CA&I IRWD	30,000	0	30,000	30,000	0	30,000	7/14	6/15
ENGINEERING - CA&I OUTSIDE	40,000	0	40,000	40,000	0	40,000	7/14	6/15
CONSTRUCTION FIELD SUPPORT	10,000	0	10,000	10,000	0	10,000	7/14	6/15
CONSTRUCTION	200,000	0	200,000	200,000	0	200,000	7/14	6/15
LEGAL	2,000	0	2,000	2,000	0	2,000	11/13	6/15
Contingency - 10.00% Subtotal	\$33,700	\$0	\$33,700	\$33,700	\$0	\$33,700		
Subtotal (Direct Costs)	\$370,700	\$0	\$370,700	\$370,700	\$0	\$370,700		
Estimated G/A - 170.00% of direct labor*	\$110,500	\$0	\$110,500	\$110,500	\$0	\$110,500		
Total	\$481,200	\$0	\$481,200	\$481,200	\$0	\$481,200		
Direct Labor	\$65,000	\$0	\$65,000	\$65,000	\$0	\$65,000		

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


EA Originator:

 5/5/14

Department Director:

 5/8/14

Finance:

 5/14/14

Board/General Manager:

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$4 million, which are hereby incorporated into the project. This is further described in the attached staff report and official intent to reimburse costs of the above-captioned project is made under Treasury Regulation Section 1.150-

OS
May 27, 2014
Prepared by: K. Lew/M. Cortez
Submitted by: K. Burton *(KLB)*
Approved by: Paul Cook *(Signature)*

CONSENT CALENDAR

TUSTIN LEGACY
ARMSTRONG AVENUE AND WARNER AVENUE CAPITAL IMPROVEMENTS

SUMMARY:

The City of Tustin (City) is proceeding with the development of Tustin Legacy and the construction of Armstrong Avenue and Warner Avenue street improvements. As part of the project, the City will construct IRWD capital facilities under an existing Supplemental Reimbursement Agreement. Staff recommends that the Board:

- Authorize the addition of Projects 11746, 31746, and 30447 in the amount of \$60,500, \$282,700, and \$773,300, respectively, to the FY 2013-14 Capital Budget; and
- Approve Expenditure Authorizations for Projects 11746, 31746, and 30447 in the amount of \$60,500, \$282,700, and \$773,300, respectively.

BACKGROUND:

The City is starting construction of Armstrong Avenue Improvements from Warner Avenue to Barranca Parkway, and Warner Avenue Improvements from Redhill Avenue to Legacy Road. A Site Map is attached as Exhibit "A". The Armstrong Avenue and Warner Avenue capital facilities consist of approximately 130 linear feet of 12-inch diameter domestic water pipeline and 6,200 linear feet of 6-inch to 16-inch diameter recycled water pipeline. The required IRWD domestic water and recycled water capital facilities are documented in the Tustin Legacy Sub-Area Master Plan Update, as prepared by RBF Consulting, Inc. (RBF) in June 2013 and shown in the capital system maps which are attached as Exhibit "B". The design and construction of the Armstrong Avenue and Warner Avenue capital facilities will be performed under a City contract through the terms of an existing Supplemental Reimbursement Agreement between IRWD and the City.

The City retained RBF to prepare the Armstrong Avenue and Warner Avenue improvement plans and the City received bids from ten contractors on March 4, 2014 for the project. R.J. Noble Company (Noble) was the lowest bidder for the overall project. Noble's bid for the IRWD portion of the work was the sixth lowest in the amount of \$635,918.90 as shown in Exhibit "C". Bids for the IRWD portion of the work ranged from \$378,464 to \$1,642,775. Staff has reviewed the construction bids and finds Noble's unit prices to be consistent with current bid prices from similar projects. Based on this determination, staff concurs with awarding the project to Noble. A summary of the Armstrong Avenue and Warner Avenue Improvement cost is shown in the following list:

Design Engineering (RBF)	\$ 50,300.00
Construction (RJ Noble)	\$635,918.90
Construction Mobilization (RJ Noble)	\$ 18,198.44
Construction Soils Testing (NMG)	\$ 19,884.00
Construction Surveying (CNC)	\$ 15,390.00
Construction Engineering (RBF)	\$ 9,000.00
City Administration Fee (4%)	\$ <u>26,164.69</u>
	\$774,856.03

FISCAL IMPACTS:

Funding for IRWD’s capital facilities will require the addition of Projects 11746 (4988), 31746 (4989), and 30447 (4984) to the FY 2013-14 Capital Budget and approval of Expenditure Authorizations in the amounts shown in the table below and in Exhibit “D”.

Project No.	Current Budget	Addition <Reduction>	Total Budget	Existing EA	This EA Request	Total EA Request
11746 (4988)	\$-0-	\$ 60,500	\$ 60,500	\$-0-	\$ 60,500	\$ 60,500
31746 (4989)	\$-0-	\$ 282,700	\$ 282,700	\$-0-	\$ 282,700	\$ 282,700
30447 (4984)	\$-0-	\$ 773,300	\$ 773,300	\$-0-	\$ 773,300	\$ 773,300
Total	\$-0-	\$1,116,500	\$1,116,500	\$-0-	\$1,116,500	\$1,116,500

The above funding provides for the reimbursement costs to the City for design, construction, consultant support services, and staff time.

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 May 20, 2014.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE ADDITION OF PROJECTS 11746 (4988), 31746 (4989), AND 30447 (4984) IN THE AMOUNT OF \$60,500, \$282,700, AND \$773,300, RESPECTIVELY, TO THE FY 2013-14 CAPITAL BUDGET; AND APPROVE EXPENDITURE AUTHORIZATIONS FOR PROJECTS 11746 (4988), 31746 (4989), AND 30447 (4984) IN THE AMOUNT OF \$60,500, \$282,700, AND \$773,300, RESPECTIVELY, FOR THE TUSTIN LEGACY ARMSTRONG AVENUE AND WARNER AVENUE IMPROVEMENTS, PROJECTS 11746 (4988), 31746 (4989), AND 30447 (4984).

LIST OF EXHIBITS:

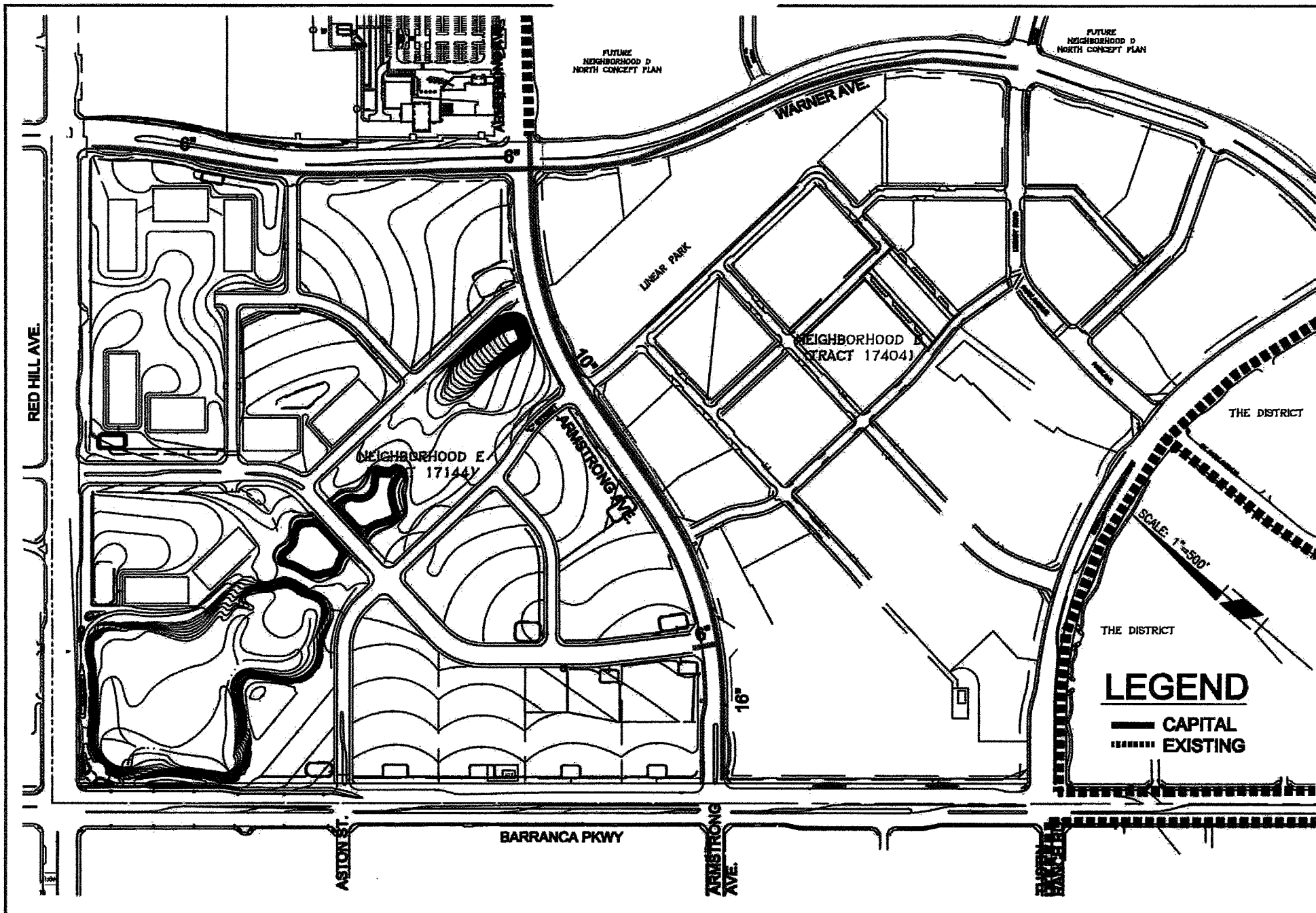
Exhibit "A" – Location Map

Exhibit "B" – Capital System Maps

Exhibit "C" – Bid Summary for Construction of IRWD Capital Facilities

Exhibit "D" – Expenditure Authorizations

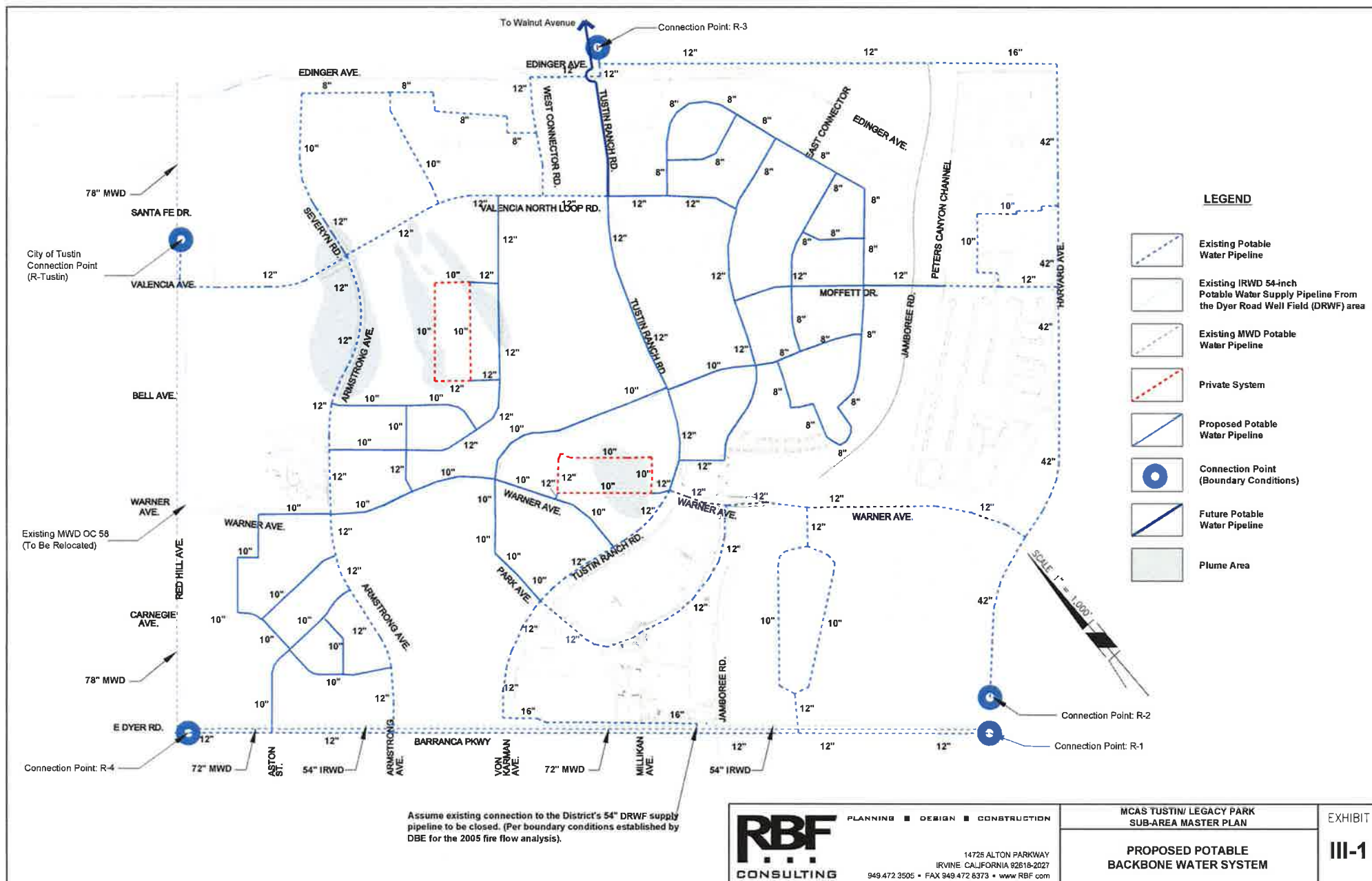
EXHIBIT "A"

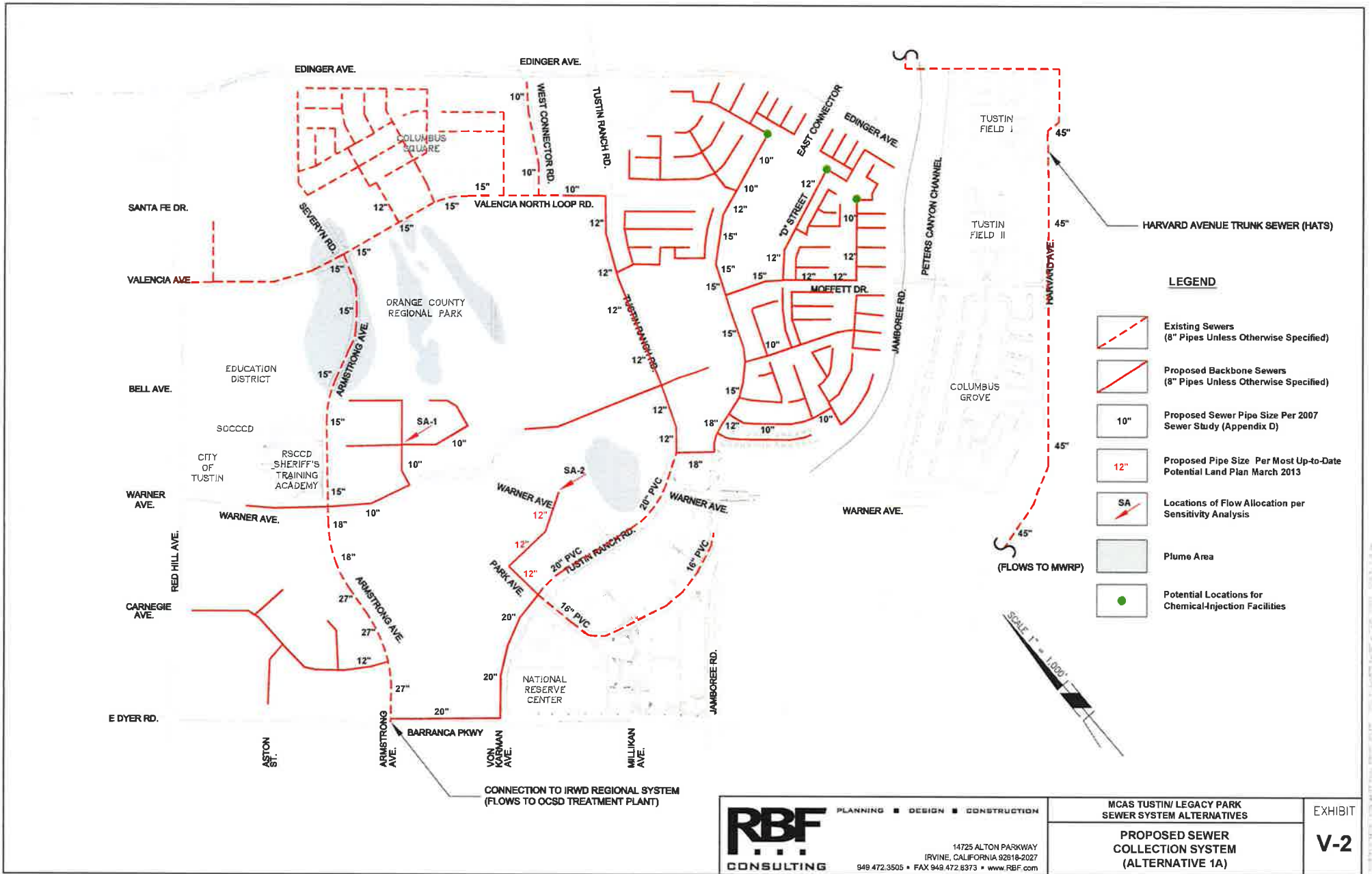


TUSTIN LEGACY ARMSTRONG/ WARNER RW PROJECT








EXHIBIT "A"

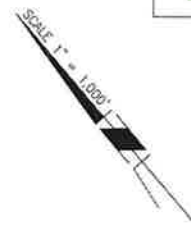
EXHIBIT "B"





LEGEND

-  Existing Sewers (8" Pipes Unless Otherwise Specified)
-  Proposed Backbone Sewers (8" Pipes Unless Otherwise Specified)
-  10"
-  12"
-  SA Locations of Flow Allocation per Sensitivity Analysis
-  Plume Area
-  Potential Locations for Chemical Injection Facilities



CONNECTION TO IRWD REGIONAL SYSTEM (FLOWS TO OCS TREATMENT PLANT)

	PLANNING ■ DESIGN ■ CONSTRUCTION	MCAS TUSTIN/ LEGACY PARK SEWER SYSTEM ALTERNATIVES	EXHIBIT
	14725 ALTON PARKWAY IRVINE, CALIFORNIA 92618-2027 949.472.3505 • FAX 949.472.6373 • www.RBF.com	PROPOSED SEWER COLLECTION SYSTEM (ALTERNATIVE 1A)	V-2

EXHIBIT "C"

AMRSTRONG AVENUE AND WARNER AVENUE EXTENSION PHASE 2 STREET IMPROVEMENTS CONSTRUCTION PROJECT

CIP NOS. 70201 & 70202

BID OPENING : 10.00 A.M., MARCH 4, 2014

ITEM NO.	CONTRACT ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	R.J. Noble Company		Pelp Inc. dba Excel Paving Company		Shanman		All American Asphalt		Hilcrest Contracting	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
<u>Warner Avenue Street Improvements</u>													
1	Mobilization	1	LS	240,000.00	240,000.00	662,202.00	662,202.00	400,000.00	400,000.00	834,000.00	834,000.00	1,000,000.00	1,000,000.00
2	Construction Survey, Staking & Survey Monument Preservation	1	LS	67,000.00	67,000.00	117,000.00	117,000.00	100,000.00	100,000.00	104,000.00	104,000.00	89,000.00	89,000.00
3	Develop Construction Water	1	LS	35,000.00	35,000.00	36,500.00	36,500.00	30,000.00	30,000.00	43,000.00	43,000.00	42,000.00	42,000.00
4	Dust Control & Clean Up	1	LS	27,000.00	27,000.00	26,000.00	26,000.00	175,000.00	175,000.00	27,000.00	27,000.00	32,000.00	32,000.00
5	Storm Water Pollution Prevention Plan & BMPs	1	LS	33,000.00	33,000.00	50,000.00	50,000.00	15,000.00	15,000.00	20,000.00	20,000.00	58,000.00	58,000.00
6	Traffic Control	1	LS	20,000.00	20,000.00	25,000.00	25,000.00	20,000.00	20,000.00	37,000.00	37,000.00	52,000.00	52,000.00
7	Control of Nuisance Water	1	LS	10,000.00	10,000.00	25,000.00	25,000.00	10,000.00	10,000.00	51,000.00	51,000.00	50,000.00	50,000.00
8	Clearing & Grubbing	1	LS	13,500.00	13,500.00	5,500.00	5,500.00	560,000.00	560,000.00	1,575.00	1,575.00	11,000.00	11,000.00
9	Roadway & Parkway Preparation Grading	831,200	SF	0.11	91,432.00	0.07	58,184.00	0.20	166,240.00	0.19	157,928.00	0.18	149,616.00
10	Unclassified Excavation	1,580	CY	11.00	16,500.00	25.00	37,500.00	10.00	15,000.00	13.70	20,550.00	15.40	23,100.00
11	Fine Grading	1	LS	125,000.00	125,000.00	210,000.00	210,000.00	700,000.00	700,000.00	103,000.00	103,000.00	203,000.00	203,000.00
12	4" PVC Sch 40 Pipe	30	LF	25.75	772.50	65.00	1,950.00	20.00	600.00	15.80	474.00	30.00	900.00
13	Remove Existing Curb & Gutter	610	LF	4.00	2,440.00	27.00	16,470.00	10.00	6,100.00	5.80	3,538.00	10.10	6,161.00
14	Remove Existing AC Pavement	10,060	SF	0.12	1,208.00	1.45	14,572.50	1.00	10,060.00	1.20	12,080.00	3.54	35,577.00
15	Remove Existing Fence	620	LF	2.15	1,333.00	3.90	2,418.00	10.00	6,200.00	5.80	3,596.00	9.10	5,642.00
16	Remove Existing Concrete	385	SF	1.57	604.45	0.42	161.70	4.00	1,540.00	1.25	481.25	2.90	1,116.50
17	Remove Existing Metal Beam Guard Railing	100	LF	13.63	1,363.00	45.00	4,500.00	10.00	1,000.00	13.70	1,370.00	14.00	1,400.00
18	Sawcut Existing AC or PCC	549	LF	3.56	1,954.44	3.00	1,647.00	1.00	549.00	2.50	1,372.50	2.70	1,482.30
19	Remove Existing IRWD Vault, Flow Meter, MH, (2) DCDA, (2) Air Vents, Antenna,	1	LS	25,600.00	25,600.00	30,000.00	30,000.00	15,000.00	15,000.00	41,500.00	41,500.00	25,000.00	25,000.00
20	Remove Existing MWD Facility, Including Flow Monitor & Antenna	1	LS	12,300.00	12,300.00	30,000.00	30,000.00	10,000.00	10,000.00	32,000.00	32,000.00	19,600.00	19,600.00
21	Relocate Existing MWD Air Vent	1	EA	5,300.00	5,300.00	3,000.00	3,000.00	4,000.00	4,000.00	3,260.00	3,260.00	1,840.00	1,840.00
22	Remove Existing City Sewer Pump Station	1	EA	8,900.00	8,900.00	15,000.00	15,000.00	5,000.00	5,000.00	8,700.00	8,700.00	32,500.00	32,500.00
23	Remove Existing City Sewer Manhole	1	EA	5,600.00	5,600.00	2,100.00	2,100.00	3,000.00	3,000.00	3,100.00	3,100.00	1,300.00	1,300.00
24	Remove Existing City 8" Sewer Line	45	LF	205.00	9,225.00	44.00	1,980.00	30.00	1,350.00	49.00	2,205.00	53.00	2,385.00
25	Remove Abandon IRWD Water Well	2	EA	3,850.00	7,700.00	6,000.00	12,000.00	2,600.00	4,000.00	4,500.00	9,000.00	3,000.00	6,000.00
26	Asphalt Concrete Pavement Base Course (Type III, B2-PG 64-10, 3/4")	20,150	TON	59.00	1,188,850.00	65.00	1,309,750.00	58.00	1,188,850.00	65.00	1,309,750.00	66.00	1,329,900.00
27	Asphalt Rubber Hot Mix (ARHM-GG-C-PG 64-16, 1/2")	8,980	TON	73.00	654,940.00	82.00	736,360.00	69.00	619,620.00	78.00	699,840.00	87.00	780,960.00
28	Curb Ramp per City of Tustin Std. No. 211 (211A)	18	EA	2,155.00	38,790.00	2,000.00	36,000.00	2,000.00	36,000.00	2,440.00	43,920.00	5,800.00	104,400.00
29	Curb Ramp per City of Tustin Std. No. 211R (211B)	1	EA	2,015.00	2,015.00	2,000.00	2,000.00	2,000.00	2,000.00	2,660.00	2,660.00	5,900.00	5,900.00
30	6" Curb & Gutter Type A-2 per City of Tustin Std. No. 201	10,636	LF	13.00	138,268.00	11.25	119,950.00	16.00	170,176.00	12.00	127,632.00	13.40	142,622.40
31	6" Curb & Gutter Type A per City of Tustin Std. No. 201	9,296	LF	9.75	90,636.00	8.75	81,340.00	10.00	92,960.00	8.00	74,368.00	11.70	108,763.20
32	Redwood Header	200	LF	9.26	1,852.00	8.00	1,600.00	10.00	2,000.00	9.40	1,880.00	9.50	1,900.00
33	Meandering Sidewalk per City of Tustin Std. No. 204	27,050	SF	3.85	104,142.50	2.75	74,387.50	3.00	81,150.00	3.20	86,560.00	4.80	129,840.00
34	Sidewalk per City of Tustin Std. No. 202	14,300	SF	3.75	53,625.00	2.75	39,325.00	5.00	71,500.00	3.14	44,902.00	4.70	67,210.00
35	Concrete Median Nose per City of Tustin Std. No. 213	7	EA	720.00	5,040.00	440.00	3,080.00	300.00	2,100.00	525.00	3,675.00	223.00	1,561.00
36	Cold Mill (0.2" Thick)	70,280	SF	0.15	10,542.00	0.40	28,112.00	0.50	35,140.00	0.08	5,622.40	0.41	28,814.80
37	Aggregate Base (City Furnished)	80,130	TON	6.00	480,780.00	4.00	320,520.00	8.00	641,040.00	3.16	253,210.80	5.90	472,767.00

AMRSTRONG AVENUE AND WARNER AVENUE EXTENSION PAHSE 2 STREET IMPROVEMENTS CONSTRUCTION PROJECT

CIP NOS. 70201 & 70202

BID OPENING : 10.00 A.M., MARCH 4, 2014

ITEM NO.	CONTRACT ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	R.J. Noble Company		Palo Inc. d/ba Excel Paving Company		Shawman		All American Asphalt		Hilcrest Contracting	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
38	Driveway per City of Tustin Std. No. 210	1,313	SF	9.75	12,801.75	11.75	15,427.75	11.00	14,443.00	18.70	24,553.10	14.00	18,382.00
39	Bus Turnout per Detail	13,894	SF	6.25	86,775.00	5.90	81,915.60	8.00	111,072.00	5.30	73,585.20	11.30	156,889.20
40	Local Depression per City of Tustin Std. No. 304	926	SF	15.37	14,232.62	29.00	26,854.00	10.00	9,280.00	3.50	3,241.00	32.00	29,632.00
41	2" Sch. 80 PVC Irrigation Sleeve	321	LF	16.25	5,216.25	9.00	2,889.00	6.00	1,926.00	8.40	2,696.40	8.20	2,632.20
42	3" Sch. 80 PVC Irrigation Sleeve	48	LF	18.50	888.00	10.00	480.00	6.60	288.00	9.40	451.20	9.30	446.40
43	4" Sch. 80 PVC Irrigation Sleeve	193	LF	20.50	3,956.50	11.00	2,123.00	8.00	1,584.00	10.50	2,026.50	10.30	1,987.90
44	6" Sch. 80 PVC Irrigation Sleeve	1,442	LF	24.25	34,968.50	12.00	17,304.00	8.00	11,536.00	11.60	16,727.20	11.30	16,294.80
45	Type A-2 to Type D Concrete Curb & Gutter Transition	336	LF	20.00	6,720.00	21.00	7,056.00	12.00	4,032.00	27.00	9,072.00	21.00	7,056.00
46	Adjust to Grade Storm Drain Manhole	8	EA	375.00	3,000.00	890.00	7,120.00	500.00	4,000.00	840.00	6,720.00	640.00	5,120.00
47	Adjust to Grade IRWD Sewer Manhole with Concrete Pad	1	EA	375.00	375.00	1,800.00	1,800.00	500.00	500.00	1,260.00	1,260.00	770.00	770.00
48	Adjust to Grade IRWD Water Gate Valve with Concrete Pad	1	EA	375.00	375.00	1,200.00	1,200.00	500.00	500.00	840.00	840.00	590.00	590.00
49	Adjust to Grade IRWD Water Gate Valve	20	EA	375.00	7,500.00	275.00	5,500.00	300.00	6,000.00	740.00	14,800.00	440.00	8,800.00
50	Metal Beam Guard Railing Detail per City of Tustin Std. No. 501	38	LF	57.88	2,199.44	56.50	2,147.00	60.00	2,280.00	59.00	2,242.00	93.00	3,534.00
51	Remove Striping	1	LS	8,500.00	8,500.00	6,000.00	6,000.00	2,000.00	2,000.00	5,775.00	5,775.00	24,700.00	24,700.00
52	Install Sign - 1 Post	32	EA	310.00	9,920.00	225.00	7,200.00	100.00	3,200.00	226.00	7,232.00	335.00	10,720.00
53	Install Sign - No Posts	98	EA	112.00	10,976.00	95.00	9,310.00	50.00	4,900.00	99.75	9,775.50	200.00	19,600.00
54	Remove Sign - 1 Post	2	EA	77.00	154.00	100.00	200.00	50.00	100.00	105.00	210.00	130.00	260.00
55	Remove Sign - No Posts	1	EA	51.25	51.25	55.00	55.00	20.00	20.00	57.75	57.75	77.00	77.00
56	Install Thermoplastic Traffic Striping Detail 9 per Caltrans Std. Plan	19,700	LF	0.31	6,107.00	0.35	6,895.00	0.70	13,790.00	0.37	7,289.00	0.62	12,214.00
57	Install Thermoplastic Traffic Striping Detail 25A per Caltrans Std. Plan	200	LF	1.00	200.00	2.00	400.00	2.00	400.00	2.10	420.00	0.77	154.00
58	Install Thermoplastic Traffic Striping Detail 27B per Caltrans Std. Plan	380	LF	1.00	380.00	1.00	380.00	2.00	760.00	1.05	399.00	0.57	216.60
59	Install Thermoplastic Traffic Striping Detail 29 per Caltrans Std. Plan	1,095	LF	2.00	2,190.00	1.15	1,259.25	2.00	2,190.00	1.21	1,324.95	2.27	2,495.65
60	Install Thermoplastic Traffic Striping Detail 36A per Caltrans Std. Plan	2,975	LF	0.82	2,439.50	0.80	2,380.00	2.00	5,950.00	0.84	2,499.00	0.88	2,618.00
61	Install Thermoplastic Traffic Striping Detail 39 per Caltrans Std. Plan	5,670	LF	0.67	3,798.90	0.60	3,402.00	1.00	5,670.00	0.63	3,572.10	0.67	3,798.90
62	Install Thermoplastic Traffic Striping Detail 39A per Caltrans Std. Plan	2,050	LF	0.67	1,373.50	0.55	1,127.50	1.00	2,050.00	0.58	1,189.00	0.67	1,373.50
63	Install Thermoplastic Traffic Striping Detail 40	2,140	LF	0.20	428.00	0.70	1,498.00	1.00	2,140.00	0.74	1,583.60	0.67	1,433.80
64	Install Thermoplastic Traffic Striping 4" Solid White or Yellow Line	2,850	LF	0.55	1,567.50	0.70	1,995.00	0.70	1,995.00	0.73	2,080.50	0.57	1,624.50
65	Install Thermoplastic Traffic Striping 12" Solid White or Yellow Line	4,560	LF	1.95	8,892.00	2.00	9,120.00	1.00	4,560.00	2.10	9,576.00	3.10	14,136.00
66	Install Thermoplastic Traffic Striping Pavement Markings (Symptoms, Laneing & Arrows)	3,200	SF	4.10	13,120.00	3.80	11,520.00	4.00	12,800.00	3.78	12,096.00	4.80	15,680.00
67	Paint Median Nose & Install Markers per City of Tustin Std. 507	12	EA	66.60	799.20	50.00	600.00	400.00	4,800.00	62.50	750.00	155.00	1,860.00
68	Traffic Signal - Warner Av. at Red Hill Av.	1	LS	200,000.00	200,000.00	243,750.00	243,750.00	80,000.00	80,000.00	219,450.00	219,450.00	207,000.00	207,000.00
69	Traffic Signal - Warner Av. at Future "G" St.	1	LS	194,000.00	194,000.00	225,000.00	225,000.00	150,000.00	150,000.00	210,000.00	210,000.00	200,000.00	200,000.00
70	Traffic Signal - Warner Av. at Armstrong Av.	1	LS	231,000.00	231,000.00	250,000.00	250,000.00	170,000.00	170,000.00	240,450.00	240,450.00	238,000.00	238,000.00
71	Traffic Signal - Warner Av. at Tustin Ranch Rd.	1	LS	206,000.00	206,000.00	225,000.00	225,000.00	200,000.00	200,000.00	202,850.00	202,850.00	212,000.00	212,000.00
72	Traffic Signal Interconnect	1	LS	71,000.00	71,000.00	135,000.00	135,000.00	150,000.00	150,000.00	123,112.50	123,112.50	73,000.00	73,000.00
73	Remove Temporary Catch Basin Riser	16	EA	1,230.00	19,680.00	850.00	13,600.00	100.00	1,600.00	1,500.00	24,000.00	263.00	3,945.00
74	Parkway Drain per SPPWC Std. Plan 151-2, Modified for Reverse Flow	14	EA	2,216.00	31,024.00	2,350.00	32,900.00	2,000.00	28,000.00	3,900.00	54,600.00	4,200.00	58,800.00
75	Inlet Type OS per City of Tustin Std. Plan 301 with Unified Storm Water, Inc. Wing	2	EA	8,200.00	16,400.00	6,300.00	12,600.00	7,000.00	14,000.00	5,500.00	11,000.00	4,200.00	8,400.00
76	Inlet Type OL per City of Tustin Std. Plan 302 with Unified Storm Water, Inc. Wing	13	EA	17,000.00	221,000.00	6,500.00	84,500.00	8,000.00	104,000.00	6,800.00	88,400.00	8,900.00	115,700.00

ARMSTRONG AVENUE AND WARNER AVENUE EXTENSION PHASE 2 STREET IMPROVEMENTS CONSTRUCTION PROJECT

CIP NOS. 70201 & 70202

BID OPENING : 10.00 A.M., MARCH 4, 2014

ITEM NO.	CONTRACT ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	R.L. Noble Company 15506 E. Lincoln Ave. Orange, CA 92665 714-837-1950		Palm Inc. dba Excel Paving Company 2230 Lencin Ave. Long Beach, CA 90805 562-569-8841		Shewan 12240 Woodruff Ave. Downey, CA 90241 562-903-9977		All American Asphalt PO Box 2229 Corona, CA 92878-2229 951-736-7800		Hiscroft Contracting 1467 Circle City Drive Corona, CA 92879 951-273-9600	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
113	Adjust to Grade Gate Valve with Concrete Pad	19	EA	375.00	7,125.00	255.00	4,845.00	300.00	5,700.00	790.00	15,010.00	440.00	8,360.00
114	Relocate/Adjust to Grade Existing Blow Off per IRWD Std. W-14	4	EA	1,843.84	7,375.36	4,200.00	16,800.00	1,000.00	4,000.00	4,200.00	16,800.00	2,070.00	8,280.00
115	Relocate/Adjust to Grade Existing Blow Off per IRWD Std. W-14	4	EA	1,536.54	6,146.16	4,350.00	17,400.00	1,000.00	4,000.00	3,800.00	14,400.00	6,700.00	26,800.00
116	Adjust Existing Fire Hydrant to Grade per IRWD Std. W-8	3	EA	768.27	2,304.81	4,000.00	12,000.00	1,000.00	3,000.00	3,050.00	9,150.00	5,800.00	17,400.00
117	Adjust Existing Cathodic Protection to Grade per IRWD Std. CP-7	3	EA	512.18	1,536.54	800.00	2,400.00	1,000.00	3,000.00	3,000.00	9,000.00	1,700.00	5,100.00
118	Relocate Existing Fire Hydrant per IRWD Std. W-8	1	EA	2,863.33	2,863.33	6,600.00	6,600.00	6,000.00	6,000.00	4,800.00	4,800.00	9,300.00	9,300.00
119	Remove Existing DW Blow-Off	1	EA	1,126.79	1,126.79	3,100.00	3,100.00	1,000.00	1,000.00	3,470.00	3,470.00	2,160.00	2,160.00
120	8" Concrete Curb & Gutter Type D per City of Tustin Std. No. 201	49	LF	20.08	983.92	21.00	1,029.00	16.00	784.00	140.00	6,860.00	32.00	1,568.00
121	Metal Beam Guard Railing per City of Tustin Std. No. 501	225	LF	41.49	9,335.25	40.50	9,112.50	60.00	13,500.00	42.50	9,562.50	78.00	17,550.00
122	Remove Striping	1	LS	7,375.38	7,375.38	2,250.00	2,250.00	1,000.00	1,000.00	2,362.50	2,362.50	7,700.00	7,700.00
123	Install Sign - 1 Post	18	EA	225.38	4,056.84	215.00	3,870.00	100.00	1,800.00	225.75	4,063.50	335.00	6,030.00
124	Install Sign - No Posts	39	EA	112.68	4,394.52	95.00	3,705.00	50.00	1,950.00	100.00	3,900.00	200.00	7,800.00
125	Remove Sign - 1 Post	5	EA	61.46	307.30	100.00	500.00	28.00	140.00	105.00	525.00	130.00	650.00
126	Remove Sign - No Posts	3	EA	51.22	153.66	55.00	165.00	20.00	60.00	57.75	173.25	77.00	231.00
127	Remove Type III Barricade	1	EA	1,850.00	1,850.00	50.00	50.00	300.00	300.00	472.50	472.50	1,930.00	1,930.00
128	Install Thermoplastic Traffic Striping Detail 9 per Caltrans Std. Plan	4,221	LF	0.31	1,308.51	0.35	1,477.35	0.70	2,954.70	0.37	1,561.77	0.62	2,517.02
129	Install Thermoplastic Traffic Striping Detail 22 per Caltrans Std. Plan	250	LF	1.54	385.00	2.00	500.00	2.00	500.00	2.10	525.00	1.13	282.50
130	Install Thermoplastic Traffic Striping Detail 29 per Caltrans Std. Plan	3,413	LF	2.05	6,996.65	1.15	3,924.95	2.00	6,826.00	1.21	4,129.73	2.27	7,747.51
131	Install Thermoplastic Traffic Striping Detail 37B per Caltrans Std. Plan	440	LF	1.02	448.80	1.75	770.00	2.00	880.00	1.84	809.60	1.03	453.20
132	Install Thermoplastic Traffic Striping Detail 38 per Caltrans Std. Plan	2,065	LF	0.92	1,899.80	1.10	2,271.50	2.00	4,130.00	1.16	2,395.40	1.03	2,128.95
133	Install Thermoplastic Traffic Striping Detail 38A per Caltrans Std. Plan	575	LF	0.82	471.50	0.85	488.75	2.00	1,150.00	0.89	511.75	0.88	506.00
134	Install Thermoplastic Traffic Striping Detail 38B per Caltrans Std. Plan	990	LF	1.13	1,118.70	0.60	594.00	2.00	1,980.00	0.63	623.70	1.13	1,118.70
135	Install Thermoplastic Traffic Striping Detail 39 per Caltrans Std. Plan	3,031	LF	0.67	2,030.77	0.60	1,818.60	1.00	3,031.00	0.63	1,909.53	0.67	2,030.77
136	Install Thermoplastic Traffic Striping Detail 39A per Caltrans Std. Plan	575	LF	0.67	385.25	0.75	431.25	1.00	575.00	0.79	454.25	0.67	385.25
137	Install Thermoplastic Traffic Striping Detail 40	238	LF	1.02	242.76	0.75	178.50	1.00	238.00	0.79	188.02	0.67	159.46
138	Install Thermoplastic Traffic Striping 4" Solid White Lead Line	450	LF	1.02	459.00	1.00	450.00	0.70	315.00	1.05	472.50	0.77	346.50
139	Install Thermoplastic Traffic Striping 4" Solid White or Yellow Line	90	LF	1.02	91.80	1.00	90.00	2.00	180.00	1.05	94.50	0.57	51.30
140	Install Thermoplastic Traffic Striping 12" Solid White or Yellow Line	688	LF	2.66	1,830.08	2.00	1,376.00	4.00	2,752.00	2.10	1,444.80	3.00	2,064.00
141	Install Thermoplastic Traffic Striping 12" Solid White or Yellow Line	1,176	LF	3.07	3,610.32	3.75	4,410.00	4.00	4,704.00	3.94	4,633.44	4.90	5,762.40
142	Paint Median Nose & Install Markers per City of Tustin Std. 507	4	EA	66.58	266.32	50.00	200.00	400.00	1,600.00	52.50	210.00	155.00	620.00
143	Remove Temporary Catch Basin Riser	13	EA	1,229.23	15,979.99	715.00	9,295.00	100.00	1,300.00	1,500.00	19,500.00	250.00	3,250.00
144	24" RCP Storm Drain Pipe (D-Load per Plan)	26	LF	307.31	7,990.06	150.00	3,900.00	500.00	13,000.00	724.50	18,837.00	100.00	2,600.00
145	Pathway Drain per SPPWC Std. Plan 151-2, Modified for Reverse Flow	11	EA	2,216.20	24,378.20	2,200.00	24,200.00	2,000.00	22,000.00	3,885.00	42,735.00	4,200.00	46,200.00
146	Install 12" RCP Storm Drain Pipe (D-Load per Plan)	2	EA	8,194.87	16,389.74	6,200.00	12,400.00	7,000.00	14,000.00	5,460.00	10,920.00	6,000.00	16,000.00
147	Install 12" RCP Storm Drain Pipe (D-Load per Plan)	14	EA	13,300.00	186,200.00	6,100.00	85,400.00	8,000.00	112,000.00	12,390.00	173,460.00	11,000.00	154,000.00
148	Install 12" RCP Storm Drain Pipe (D-Load per Plan)	14	EA	512.18	7,170.52	3,100.00	43,400.00	5,000.00	70,000.00	3,465.00	48,510.00	2,300.00	32,200.00
149	Interlocking Concrete Pavers for Median Nosing Paving	632	SF	12.38	7,824.16	15.00	9,480.00	8.00	5,056.00	13.70	8,656.40	12.70	8,028.40
150	Interlocking Concrete Pavers for Maintenance Edge Paving	632	SF	16.11	10,280.32	15.00	9,480.00	9.00	5,688.00	13.80	8,721.60	16.30	10,389.60
151	Landscape Planting	1	LS	40,000.00	40,000.00	40,500.00	40,500.00	40,000.00	40,000.00	92,400.00	92,400.00	42,000.00	42,000.00

ARMSTRONG AVENUE AND WARNER AVENUE EXTENSION PHASE 2 STREET IMPROVEMENTS CONSTRUCTION PROJECT

CIP NOS. 70201 & 70202

BID OPENING : 10.00 A.M., MARCH 4, 2014

ITEM NO.	CONTRACT ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	R.J. Noble Company 15905 E. Lincoln Ave. Orange, CA 92665 714-637-1500		Pelp Inc. dba Excel Paving Company 2230 Lemon Ave. Long Beach, CA 90805 562-559-5841		Shawman 12240 Woodruff Ave. Downey, CA 90241 652-803-9977		All American Asphalt PO Box 2229 Corona, CA 92878-2229 951-736-7600		Hilcrest Contracting 1467 Circle City Drive Corona, CA 92878 951-273-9600	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
152	Maintenance & Plant Establishment Period	1	LS	8,000.00	8,000.00	7,800.00	7,800.00	5,000.00	5,000.00	1,050.00	1,050.00	8,000.00	8,000.00
153	Irrigation System	1	LS	87,000.00	87,000.00	85,000.00	85,000.00	100,000.00	100,000.00	120,750.00	120,750.00	88,000.00	88,000.00
Total for Armstrong Avenue Improvements					2,179,586.05		2,514,905.65		2,811,670.70		2,402,233.43		2,432,145.56
Warner Avenue & Armstrong Avenue Dry Utility Improvements													
Southern California Edison (SCE)													
154	Furnish & Install 6" Electrical Conduit - DB100	41,572	LF	7.80	324,261.60	8.00	332,576.00	3.00	124,716.00	8.10	336,733.20	8.00	332,576.00
155	Furnish & Install 3" Electrical Conduit - DB60	6,819	LF	6.86	46,414.54	7.00	47,733.00	2.00	13,638.00	6.80	46,369.20	6.70	45,687.30
156	Furnish & Install 1 1/2" Electrical Conduit - DB60	6,978	LF	3.07	21,422.46	3.25	22,678.50	2.00	13,956.00	3.15	21,931.80	3.10	21,631.80
157	Furnish & Install Hand-hole 17" x 30" (Parkway)	33	EA	332.92	10,986.36	335.00	11,055.00	170.00	5,610.00	340.00	11,220.00	335.00	11,055.00
158	Furnish & Install Transformer Pad 48" x 54" with 17" x 30" inverted HH	3	EA	2,253.59	6,760.77	2,250.00	6,750.00	1,000.00	3,000.00	2,300.00	6,900.00	2,270.00	6,810.00
159	Furnish & Install PME Pad 5' x 10.5' x 7'	4	EA	13,316.66	53,266.64	13,275.00	53,100.00	9,800.00	39,200.00	13,700.00	54,800.00	13,400.00	53,600.00
160	Furnish & Install MH 6' x 12' x 7'	5	EA	16,000.00	80,000.00	16,000.00	80,000.00	17,000.00	85,000.00	16,300.00	81,500.00	16,000.00	80,000.00
161	Furnish & Install 7' x 14' x 18' Vault	4	EA	36,000.00	144,000.00	37,000.00	148,000.00	35,000.00	140,000.00	37,000.00	148,000.00	36,000.00	144,000.00
162	Furnish & Install 66" X 72" Cap Pad	1	EA	1,843.84	1,843.84	1,900.00	1,900.00	2,000.00	2,000.00	1,900.00	1,900.00	1,850.00	1,850.00
AT & T (Telephone)													
163	Furnish & Install 4" Telephone Conduit - Type C	37,330	LF	2.82	105,270.60	2.85	106,380.50	3.00	111,990.00	2.90	108,257.00	2.83	105,643.90
164	Furnish & Install Manhole 6' x 12' x 7'	6	EA	11,267.64	67,605.94	11,500.00	69,000.00	14,000.00	84,000.00	11,600.00	69,600.00	11,300.00	67,800.00
Trench (including Encasement when required)													
165	Trench For Mainline Joint	7,954	LF	9.22	73,335.88	10.00	79,540.00	7.00	55,678.00	9.40	74,767.60	9.30	73,972.20
166	Trench for Electrical Only	3,472	LF	9.22	32,011.84	10.00	34,720.00	6.00	20,832.00	9.40	32,636.80	9.30	32,289.60
167	Trench for Street Light Only	3,078	LF	9.22	28,379.16	10.00	30,780.00	6.00	18,468.00	9.40	28,933.20	9.30	28,525.40
168	Trench for Telephone Only	1,439	LF	6.15	8,849.85	6.75	9,713.25	6.00	8,634.00	6.30	9,065.70	6.20	8,921.80
169	Trench for CATV (COX) Only	205	LF	6.15	1,260.75	6.75	1,383.75	20.00	4,100.00	6.30	1,291.50	6.20	1,271.00
170	Trench for CATV (TWC) Only	205	LF	6.15	1,260.75	6.75	1,383.75	20.00	4,100.00	6.30	1,291.50	6.20	1,271.00
171	Trench for Spare Only	205	LF	6.15	1,260.75	6.75	1,383.75	20.00	4,100.00	6.30	1,291.50	6.20	1,271.00
CATV (COX & TWC)													
172	Provide Excavation & Backfill for COX 2' x 3' Pull-box	4	EA	409.74	1,638.96	450.00	1,800.00	200.00	800.00	420.00	1,680.00	410.00	1,640.00
173	Provide Excavation & Backfill for COX 3' x 5' Pull-box	8	EA	819.49	6,555.92	900.00	7,200.00	500.00	4,000.00	840.00	6,720.00	820.00	6,560.00
174	Provide Excavation & Backfill for COX 18" X 30" Node Pedestal	2	EA	409.74	819.48	450.00	900.00	500.00	1,000.00	420.00	840.00	410.00	820.00
175	Provide Excavation & Backfill for TWC 2' x 3' Pull-box	2	EA	409.74	819.48	450.00	900.00	400.00	800.00	420.00	840.00	410.00	820.00
176	Provide Excavation & Backfill for TWC 3' x 5' Pull-box	5	EA	819.49	4,097.45	900.00	4,500.00	300.00	1,500.00	840.00	4,200.00	820.00	4,100.00
Spare Conduit													
177	Furnish & Install Spare 4" Conduit Sch. 40	18,444	LF	5.10	94,064.40	5.50	101,442.00	3.00	55,332.00	5.25	96,831.00	5.20	95,908.80
178	Furnish & Install Spare Pull-box 2' x 3' x 3'	11	EA	819.49	9,014.39	900.00	9,900.00	400.00	4,400.00	840.00	9,240.00	820.00	8,020.00
Additional Items													
179	Gas 6" Sleeve	699	LF	18.44	12,889.56	20.00	13,980.00	10.00	6,990.00	19.00	13,281.00	18.50	12,931.50

AMRSTRONG AVENUE AND WARNER AVENUE EXTENSION PHASE 2 STREET IMPROVEMENTS CONSTRUCTION PROJECT

CIP NOS. 70201 & 70202

BID OPENING : 10.00 A.M., MARCH 4, 2014

ITEM NO.	CONTRACT ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	R.J. Noble Company 15505 E. Lincoln Ave. Orange, CA 92665 714-637-1550		Peip Inc. dba Excel Paving Company 2230 Lemon Ave. Long Beach, CA 90805 562-559-9841		Shawman 12240 Woodruff Ave. Downey, CA 90241 562-803-9977		All American Asphalt PO Box 2229 Corona, CA 92878-2229 951-738-7800		Hilcrest Contracting 1467 Circle City Drive Corona, CA 92879 951-273-9600	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
Total for Dry Utility Improvements					1,137,993.07		1,178,709.50		613,944.00		1,170,169.90		1,150,076.30
<u>Warner Avenue & Armstrong Avenue IRWD Non-Capital Improvements</u>													
<u>Sewer</u>													
180	Install 10" PVC, SDR-35, Sewer per IRWD Std. S-6	1,020	LF	120.00	122,400.00	65.00	66,300.00	198.00	201,960.00	86.00	87,720.00	47.00	47,940.00
181	Install 8" PVC, SDR-35, Sewer per IRWD Std. S-6	1,253	LF	105.00	131,565.00	58.50	73,300.50	140.00	175,420.00	84.00	105,252.00	39.00	48,887.00
182	Install 6" PVC, SDR-35, Sewer per IRWD Std. S-6	241	LF	115.00	27,715.00	76.00	18,316.00	140.00	33,740.00	124.00	29,884.00	34.00	8,194.00
183	Construct 48" Sewer Manhole per IRWD Std. S-1	12	EA	6,800.00	81,600.00	6,900.00	82,800.00	5,000.00	60,000.00	6,100.00	73,200.00	4,600.00	55,200.00
184	Install Terminal Cleanout Per IRWD Std. S-5	6	EA	2,500.00	15,000.00	2,200.00	13,200.00	2,000.00	12,000.00	1,900.00	11,400.00	1,070.00	6,420.00
185	Remove Plug & Join Existing	2	EA	770.00	1,540.00	1,125.00	2,250.00	1,000.00	2,000.00	1,120.00	2,240.00	2,350.00	4,700.00
186	Install Sewer Plug	5	EA	615.00	3,075.00	775.00	3,875.00	700.00	3,500.00	410.00	2,050.00	260.00	1,300.00
187	Install Sewer Lateral with Cleanout per IRWD Std. S-3, S-4, S-5	2	EA	4,900.00	9,800.00	3,400.00	6,800.00	5,000.00	10,000.00	6,900.00	13,800.00	3,350.00	6,700.00
188	Remove IRWD Sewer Manhole	1	EA	2,500.00	2,500.00	1,100.00	1,100.00	2,000.00	2,000.00	3,260.00	3,260.00	1,040.00	1,040.00
189	Remove IRWD 8" Sewer Pipe	28	LF	215.00	6,020.00	40.00	1,120.00	100.00	2,800.00	83.00	2,324.00	27.00	756.00
190	Plug End of Existing Sewer Manhole	1	EA	1,500.00	1,500.00	700.00	700.00	500.00	500.00	3,470.00	3,470.00	700.00	700.00
<u>Domestic Water</u>													
191	Install 8" AWWA C-900 PVC, DR 14, Domestic Water Pipe per IRWD Std. W-16	30	LF	155.00	4,650.00	175.00	5,250.00	200.00	6,000.00	160.00	4,800.00	38.50	1,155.00
192	Install 10" AWWA C-900 PVC, DR 14 Cl. 305, Domestic Water Pipe per IRWD	3,626	LF	80.00	290,080.00	46.00	166,796.00	80.00	290,080.00	72.00	261,072.00	42.00	152,292.00
193	Deleted												
194	Install 10" X 10" DI (FE X FE) Tee & Thrust Block per IRWD Std. W-16	2	EA	2,850.00	5,700.00	1,050.00	2,100.00	3,000.00	6,000.00	1,800.00	3,600.00	760.00	1,520.00
195	Install 10" 22.5 Degree DI (FE X PO) Bend & Thrust Block per IRWD Std. W-16	2	EA	1,850.00	3,700.00	1,050.00	2,100.00	3,000.00	6,000.00	1,600.00	3,200.00	440.00	880.00
196	Install 10" 90 Degree DI (FE X FE) Bend & Thrust Block per IRWD Std. W-16	1	EA	1,850.00	1,850.00	525.00	525.00	3,000.00	3,000.00	1,800.00	1,800.00	600.00	600.00
197	Install 10" 45 Degree DI (PO X PO) Bend & Thrust Block per IRWD Std. W-16	2	EA	1,600.00	3,000.00	895.00	1,790.00	3,000.00	6,000.00	1,420.00	2,840.00	490.00	980.00
198	Install Fire Hydrant per IRWD Std. W-9 & Valve Box per IRWD Std. W-12	7	EA	9,000.00	63,000.00	8,250.00	57,750.00	5,000.00	35,000.00	14,500.00	101,500.00	7,200.00	50,400.00
199	Install Temporary Flush-Out Assembly per IRWD Std. W-12	2	EA	2,700.00	5,400.00	12,500.00	25,000.00	1,000.00	2,000.00	5,100.00	10,200.00	3,460.00	6,920.00
200	Install 8" Gate Valve (FE X FE) & Valve Box per IRWD Std. W-22	1	EA	2,150.00	2,150.00	3,100.00	3,100.00	3,000.00	3,000.00	3,260.00	3,260.00	2,400.00	2,400.00
201	Install 10" DW Gate Valve (FE X FE) & Valve Box per IRWD Std. W-22	8	EA	4,500.00	36,000.00	1,450.00	11,600.00	3,500.00	28,000.00	5,500.00	44,000.00	3,260.00	26,080.00
202	Deleted												
203	Install 10" FE X PO Adaptor	4	EA	1,843.84	7,375.36	350.00	1,400.00	700.00	2,800.00	950.00	3,800.00	550.00	2,200.00
204	Install 10" x 6" (FE X FE) Reducer	1	EA	1,638.97	1,638.97	625.00	625.00	700.00	700.00	1,580.00	1,580.00	830.00	830.00
205	Install 12" x 10" (FE X FE) Reducer	1	EA	1,638.97	1,638.97	1,000.00	1,000.00	1,000.00	1,000.00	1,800.00	1,800.00	760.00	760.00
206	Remove Temporary Flush-Out Assembly & Join Existing	1	EA	2,356.02	2,356.02	5,300.00	5,300.00	500.00	500.00	4,000.00	4,000.00	1,120.00	1,120.00
207	Deleted												
208	Install 12" x 10" DI (FE X FE) Cross & Thrust Block per IRWD Std. W-16	1	EA	3,585.25	3,585.25	850.00	850.00	1,000.00	1,000.00	2,730.00	2,730.00	1,300.00	1,300.00
209	Install Flex Coupling - 12"	2	EA	1,843.84	3,687.68	1,400.00	2,800.00	800.00	1,600.00	1,870.00	3,740.00	1,630.00	3,260.00
210	Install 12" DW Butterfly Valve (FE X FE) & Valve Box per IRWD Std. W-22	2	EA	4,302.30	8,604.60	1,550.00	3,100.00	3,000.00	6,000.00	6,500.00	13,000.00	3,900.00	7,800.00
211	Install 8" x 8" DI (FE X FE) Tee & Thrust Block per IRWD Std. W-16	1	EA	1,843.84	1,843.84	1,250.00	1,250.00	3,000.00	3,000.00	1,520.00	1,520.00	560.00	560.00
212	Install 10" x 6" DI (FE X FE) Tee & Thrust Block per IRWD Std. W-16	3	EA	1,843.84	5,531.62	645.00	1,935.00	3,300.00	9,900.00	1,230.00	3,690.00	1,330.00	3,990.00

ARMSTRONG AVENUE AND WARNER AVENUE EXTENSION PHASE 2 STREET IMPROVEMENTS CONSTRUCTION PROJECT

CIP NOS. 70201 & 70202

BID OPENING : 10.00 A.M., MARCH 4, 2014

				R.L. Noble Company 15905 E. Lincoln Ave. Orange, CA 92665 714-637-1550		Palo Inc. dba Excel Paving Company 2230 Lemon Ave. Long Beach, CA 90805 562-559-5841		Shewman 12240 Woodhuff Ave. Downey, CA 90241 562-803-9977		AR American Asphalt PO Box 2229 Corona, CA 92878-2229 951-736-7600		Hilcrest Contracting 1467 Circle City Drive Corona, CA 92879 951-273-9600	
ITEM NO.	CONTRACT ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
213	Install Blind Flange & Thrust Block per IRWD Std. W-16	1	EA	1,838.97	1,838.97	850.00	850.00	700.00	700.00	1,500.00	1,500.00	640.00	640.00
214	Install 10" x 8" DI (FE X FE) Tee & Thrust Block per IRWD Std. W-16	2	EA	2,253.59	4,507.18	1,000.00	2,000.00	2,200.00	4,400.00	1,700.00	3,400.00	1,360.00	2,720.00
<u>Recycled Water</u>													
215	Install 4" AWWA C-900 PVC Purple Pipe, DR 14, Recycled water per IRWD Std. W-17	46	LF	102.44	4,712.24	48.00	2,208.00	170.00	7,820.00	150.00	6,900.00	27.00	1,242.00
216	Install 4" RW Gate Valve (FE X FE) & Valve Box per IRWD Std. W-22	1	EA	2,560.90	2,560.90	830.00	830.00	1,200.00	1,200.00	2,000.00	2,000.00	1,550.00	1,550.00
217	Install 4" DI (FE X PO) Adaptor	1	EA	1,229.23	1,229.23	265.00	265.00	600.00	600.00	550.00	550.00	368.00	368.00
218	Deleted												
219	Deleted												
220	Deleted												
221	Install 1" Copper Service With 1" Meter per IRWD Std. W-1 (Non-Capital)	5	EA	2,663.33	13,316.65	2,150.00	10,750.00	2,200.00	11,000.00	4,000.00	20,000.00	1,350.00	6,750.00
222	Install 2" Copper Service With 1" Meter per IRWD Std. W-1 (Non-Capital)	4	EA	3,073.07	12,292.28	3,500.00	14,000.00	3,700.00	14,800.00	5,250.00	21,000.00	2,260.00	9,040.00
223	Install Blow-Off Assembly per IRWD Std. W-14	1	EA	8,399.74	8,399.74	8,900.00	8,900.00	900.00	900.00	15,800.00	15,800.00	7,200.00	7,200.00
224	Install Temporary Flush-Out Assembly per IRWD Std. W-12	1	EA	4,302.30	4,302.30	4,000.00	4,000.00	700.00	700.00	4,100.00	4,100.00	780.00	780.00
Total IRWD Non-Capital Improvements					907,468.70		608,835.50		965,620.00		801,962.00		477,132.00
<u>Warner Avenue & Armstrong Avenue IRWD Capital Improvements</u>													
<u>Domestic Water</u>													
225	Install 12" AWWA C-900 PVC, DR 14, Domestic Water Pipe per IRWD Std. W-17	138	LF	122.92	16,962.96	75.00	10,350.00	140.00	19,320.00	175.00	24,150.00	52.00	7,176.00
226	Deleted												
227	Deleted												
228	Install Temporary Flush-Out Assembly per IRWD Std. W-12	1	EA	3,585.25	3,585.25	6,000.00	6,000.00	900.00	900.00	5,900.00	5,900.00	4,200.00	4,200.00
229	Deleted												
230	Deleted												
231	Deleted												
232	Remove DW 12" Blind Flange & Join Existing	1	EA	1,843.84	1,843.84	5,100.00	5,100.00	700.00	700.00	4,160.00	4,160.00	2,840.00	2,840.00
233	Relocate Existing DW Air Release	1	EA	2,560.90	2,560.90	1,600.00	1,600.00	2,000.00	2,000.00	3,800.00	3,800.00	6,100.00	6,100.00
<u>Recycled Water</u>													
234	Install 6" AWWA C-900 PVC Purple Pipe per IRWD Std. W-17	3,418	LF	58.50	199,953.00	32.00	109,376.00	80.00	205,080.00	52.50	179,445.00	32.00	109,376.00
235	Install 10" AWWA C-900 PVC Purple Pipe, DR-14, per IRWD Std. W-17	2,085	LF	76.00	158,460.00	49.00	102,165.00	70.00	145,950.00	78.00	162,630.00	44.00	91,740.00
236	Install 12" AWWA C-900 PVC, DR-14, per IRWD Std. W-17	51	LF	204.87	10,448.37	115.00	5,865.00	200.00	10,200.00	190.00	9,690.00	56.00	2,856.00
237	Install 16" AWWA C-905 DR-16 PVC Purple Pipe per IRWD Std. W-17	520	LF	92.00	47,840.00	71.00	36,920.00	150.00	78,000.00	140.00	72,800.00	70.00	36,400.00
238	Install 6" DI 45 Degree Bend (FE X FE) & Thrust Block per IRWD Std. W-16	4	EA	2,560.90	10,243.60	250.00	1,000.00	800.00	3,200.00	1,260.00	5,040.00	450.00	1,800.00
239	Install 6" DI 45 Degree Bend (FE X M)	4	EA	2,560.90	10,243.60	395.00	1,580.00	800.00	3,200.00	1,330.00	5,320.00	390.00	1,560.00

ARMSTRONG AVENUE AND WARNER AVENUE EXTENSION PHASE 2 STREET IMPROVEMENTS CONSTRUCTION PROJECT

CIP NOS. 70201 & 70202

BID OPENING : 10.00 A.M., MARCH 4, 2014

				R.J. Noble Company 15516 E. Lincoln Ave. Orange, CA 92665 714-837-1530		Pelp Inc. dba Excel Paving Company 2230 Lemon Ave. Long Beach, CA 90805 562-559-6841		Shewman 12240 Woodruff Ave. Downey, CA 90241 562-803-9977		All American Asphalt PO Box 2229 Corona, CA 92878-2229 951-736-7600		Hilcrest Contracting 1467 Circle City Drive Corona, CA 92879 951-273-9600	
ITEM NO.	CONTRACT ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
240	Install 4" RW Gate Valve (FE X FE) & Valve Box per IRWD Std. W-22	1	EA	2,888.20	2,888.20	750.00	750.00	2,000.00	2,000.00	2,170.00	2,170.00	1,550.00	1,550.00
241	Install 6" RW Gate Valve (FE X FE) & Valve Box per IRWD Std. W-22	9	EA	3,150.00	28,350.00	925.00	8,325.00	2,200.00	19,800.00	2,460.00	22,140.00	1,740.00	15,660.00
242	Install 10" RW Gate Valve (Fe X Fe) & Valve Box per IRWD Std. W-22	1	EA	5,121.79	5,121.79	2,100.00	2,100.00	2,500.00	2,500.00	4,200.00	4,200.00	3,100.00	3,100.00
243	Install 12" X 12" X 6" X 6" D Cross (FE X FE) & Thrust Block per IRWD Std. W-16	1	EA	2,888.20	2,888.20	1,100.00	1,100.00	2,100.00	2,100.00	2,400.00	2,400.00	1,570.00	1,570.00
244	Install 16" X 6" DI Cross (FE X FE) & Thrust Block per IRWD Std. W-16	1	EA	3,585.25	3,585.25	1,625.00	1,625.00	2,700.00	2,700.00	4,000.00	4,000.00	2,140.00	2,140.00
245	Install 6" X 4" DI Tee (FE X FE) & Thrust Block per IRWD Std. W-16	1	EA	2,253.59	2,253.59	325.00	325.00	1,200.00	1,200.00	1,380.00	1,380.00	500.00	500.00
246	Install 6" X 6" DI Tee (FE X FE) & Thrust Block per IRWD Std. W-16	1	EA	2,253.59	2,253.59	575.00	575.00	1,400.00	1,400.00	1,380.00	1,380.00	560.00	560.00
247	Install 16" Butterfly Valve (FE X FE) & Valve Box per IRWD Std. W-22	2	EA	7,600.00	15,200.00	2,650.00	5,300.00	3,100.00	6,200.00	9,800.00	19,200.00	6,500.00	13,000.00
248	Install 12" Butterfly Valve (FE X FE) & Valve Box per IRWD Std. W-22	1	EA	6,146.15	6,146.15	3,000.00	3,000.00	3,100.00	3,100.00	6,800.00	6,800.00	3,900.00	3,900.00
249	Install 11.25 Degree DI Bend (F U X F U) (L X L) & Thrust Block per IRWD Std. W-16	2	EA	614.61	1,229.22	250.00	500.00	800.00	1,600.00	1,220.00	2,440.00	430.00	860.00
250	Install 6" 22.5 Degree DI Bend (F O X P O) & Thrust Block per IRWD Std. W-16	2	EA	614.61	1,229.22	490.00	980.00	800.00	1,600.00	1,220.00	2,440.00	430.00	860.00
251	Install 6" 45 Degree DI Bend (F U X F U) (L X L) & Thrust Block per IRWD Std. W-16	2	EA	786.27	1,536.54	390.00	780.00	800.00	1,600.00	1,220.00	2,440.00	430.00	860.00
252	Install 6" DIP Spool (FE X FE) Class 350 per IRWD Std. W-17	64	LF	225.36	14,423.04	145.00	9,280.00	60.00	3,840.00	255.00	16,380.00	115.00	7,360.00
253	Install 16" DI (FE X PO) Adapter	1	EA	2,048.72	2,048.72	920.00	920.00	700.00	700.00	2,100.00	2,100.00	1,130.00	1,130.00
254	Install 12" DI (FE X PO) Adapter	2	EA	1,536.54	3,073.08	450.00	900.00	600.00	1,200.00	1,110.00	2,220.00	1,060.00	2,120.00
255	Install 10" DI (FE X PO) Adapter	3	EA	1,536.54	4,609.62	360.00	1,080.00	500.00	1,500.00	950.00	2,850.00	590.00	1,770.00
256	Install 6" DI (FE X PO) Adapter	7	EA	1,024.38	7,170.62	360.00	2,520.00	400.00	2,800.00	670.00	4,690.00	380.00	2,660.00
257	Install 16" to 10" (FE X FE) DI Reducer	1	EA	1,843.84	1,843.84	1,100.00	1,100.00	1,000.00	1,000.00	3,400.00	3,400.00	1,230.00	1,230.00
258	Install 12" to 10" (FE X FE) DI Reducer	1	EA	1,536.54	1,536.54	400.00	400.00	900.00	900.00	1,950.00	1,950.00	620.00	620.00
259	Install Two Wire Test Station per IRWD Std. CP-1	4	EA	1,536.54	6,146.16	2,000.00	8,000.00	800.00	3,200.00	3,470.00	13,880.00	890.00	3,560.00
260	Install 1" Air Release & Vacuum Assembly per IRWD Std. W-11	6	EA	3,150.00	18,900.00	3,450.00	20,700.00	1,000.00	6,000.00	6,200.00	37,200.00	1,930.00	11,580.00
261	Install Temporary Flush-Out Assembly per IRWD Std. W-12	4	EA	2,560.90	10,243.60	5,300.00	21,200.00	800.00	3,200.00	3,900.00	15,600.00	950.00	3,800.00
262	Install End of Line Cap & Thrust Block per IRWD Std. W-16	1	EA	1,229.23	1,229.23	450.00	450.00	700.00	700.00	750.00	750.00	398.00	398.00
263	Install Flush-Out Assembly per IRWD Std. W-13	1	EA	3,892.56	3,892.56	4,600.00	4,600.00	800.00	800.00	5,000.00	5,000.00	3,540.00	3,540.00
264	Install Blow-Off Assembly per IRWD Std. W-14	2	EA	8,399.74	16,799.48	16,500.00	33,000.00	1,000.00	2,000.00	16,800.00	33,600.00	6,800.00	13,600.00
265	Remove Existing RW Blow-Off	1	EA	2,580.90	2,580.90	625.00	625.00	700.00	700.00	3,300.00	3,300.00	3,250.00	3,250.00
266	Remove Existing 12" Blind Flange & Join Existing 12" RW Main	1	EA	2,048.72	2,048.72	5,200.00	5,200.00	700.00	700.00	4,000.00	4,000.00	3,300.00	3,300.00
267	Remove Temporary Flush-Out Assembly & Join Existing	3	EA	1,536.54	4,609.62	4,600.00	13,800.00	500.00	1,500.00	3,980.00	11,400.00	3,300.00	9,900.00
Total IRWD Capital Improvements					635,918.90		431,091.00		545,090.00		702,289.00		378,464.00
Miscellaneous													
268	Provide Legal Pollution Liability Insurance for the Next 5 Year After the Date of Core Catch Basin & Connect 4" PVC Pipe	6	YR	2,400.00	12,000.00	5,200.00	26,000.00	5,000.00	25,000.00	7,500.00	38,000.00	5,900.00	29,000.00
269	Core Catch Basin & Connect 4" PVC Pipe	1	EA	256.09	256.09	1,050.00	1,050.00	400.00	400.00	2,570.00	2,570.00	500.00	500.00
GRAND TOTAL					10,552,962.61		11,065,912.45		11,373,777.70		11,700,397.98		11,710,974.21
Contractor's Total Price Amount as shown in the Bid Document					10,552,962.61		11,068,062.45		11,369,697.70		11,700,397.98		11,710,974.21
± Correction					-		(2,150.00)		4,080.00		-		-
Percent ± Engineer's Estimate					-18.82%		-14.88%		-12.61%		-10.00%		-9.92%

AMRSTRONG AVENUE AND WARNER AVENUE EXTENSION PHASE 2 S

CIP NOS. 70201 & 702

BID OPENING : 10.00 A.M., MAF

ITEM NO.	CONTRACT ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	Los Angeles Engineering 633 N. Barranca Ave. Corona, CA 91723 626-454-6222		Environmental Construction, Inc. 21550 Conard St., Ste. #1050 Woodland Hills, CA 91367 818-449-8820		The Sun Group 3151 Airway Ave., Bldg. V Costa Mesa, CA 92626 949-476-3133		USS Cal Builders 6051 Main St. Stanton, CA 90680 714-828-4882		Minsko America Corporation 522 E. Airline Way Gardena, CA 90258 310-518-8100	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
<u>Warner Avenue Street Improvements</u>													
1	Mobilization	1	LS	1,041,000.00	1,041,000.00	427,500.00	427,500.00	475,000.00	475,000.00	896,180.20	896,180.20	433,000.00	433,000.00
2	Construction Survey, Staking & Survey Monument Preservation	1	LS	150,000.00	150,000.00	60,973.00	60,973.00	87,100.00	87,100.00	90,000.00	90,000.00	77,000.00	77,000.00
3	Develop Construction Water	1	LS	25,000.00	25,000.00	10,000.00	10,000.00	108,900.00	108,900.00	45,000.00	45,000.00	70,000.00	70,000.00
4	Dust Control & Clean Up	1	LS	5,000.00	5,000.00	5,000.00	5,000.00	152,500.00	152,500.00	75,000.00	75,000.00	70,000.00	70,000.00
5	Storm Water Pollution Prevention Plan & BMPs	1	LS	15,000.00	15,000.00	30,000.00	30,000.00	49,000.00	49,000.00	125,000.00	125,000.00	70,000.00	70,000.00
6	Traffic Control	1	LS	15,000.00	15,000.00	21,000.00	21,000.00	98,000.00	98,000.00	75,000.00	75,000.00	100,000.00	100,000.00
7	Control of Nuisance Water	1	LS	2,000.00	2,000.00	5,000.00	5,000.00	21,800.00	21,800.00	50,000.00	50,000.00	7,000.00	7,000.00
8	Cleaning & Grubbing	1	LS	25,000.00	25,000.00	24,536.00	24,536.00	34,900.00	34,900.00	150,000.00	150,000.00	70,000.00	70,000.00
9	Roadway & Parkway Preparation Grading	831,200	SF	0.07	58,184.00	0.20	166,240.00	0.40	332,480.00	0.30	249,360.00	1.00	831,200.00
10	Unclassified Excavation	1,500	CY	20.00	30,000.00	20.00	30,000.00	28.00	42,000.00	50.00	75,000.00	20.00	30,000.00
11	Fine Grading	1	LS	150,000.00	150,000.00	124,680.00	124,680.00	76,300.00	76,300.00	450,000.00	450,000.00	100,000.00	100,000.00
12	4" PVC Sch 40 Pipe	30	LF	30.00	900.00	20.00	600.00	33.00	990.00	65.00	1,950.00	50.00	1,500.00
13	Remove Existing Curb & Gutter	610	LF	4.50	2,745.00	5.00	3,050.00	8.70	5,307.00	12.00	7,320.00	5.00	3,050.00
14	Remove Existing AC Pavement	10,050	SF	4.25	42,712.50	1.00	10,050.00	6.60	66,330.00	2.50	25,125.00	1.00	10,050.00
15	Remove Existing Fence	620	LF	5.00	3,100.00	4.00	2,480.00	4.00	2,480.00	10.00	6,200.00	10.00	6,200.00
16	Remove Existing Concrete	385	SF	5.00	1,925.00	2.00	770.00	4.00	1,540.00	7.00	2,695.00	1.00	385.00
17	Remove Existing Metal Beam Guard Railing	100	LF	15.00	1,500.00	5.00	500.00	11.00	1,100.00	15.00	1,500.00	10.00	1,000.00
18	Sawcut Existing AC or PCC	549	LF	5.00	2,745.00	2.00	1,098.00	3.00	1,647.00	4.00	2,196.00	2.00	1,098.00
19	Remove Existing IRWD Vault, Flow Meter, MH, (2) DCDA, (2) Air Vents, Antenna	1	LS	21,000.00	21,000.00	10,725.00	10,725.00	27,300.00	27,300.00	17,000.00	17,000.00	177,000.00	177,000.00
20	Remove Existing MWD Facility, Including Flow Monitor & Antenna	1	LS	22,000.00	22,000.00	2,000.00	2,000.00	27,300.00	27,300.00	3,300.00	3,300.00	7,000.00	7,000.00
21	Relocate Existing MWD Air Vent	1	EA	2,500.00	2,500.00	500.00	500.00	16,400.00	16,400.00	3,000.00	3,000.00	7,000.00	7,000.00
22	Remove Existing City Sewer Pump Station	1	EA	25,000.00	25,000.00	8,000.00	8,000.00	16,400.00	16,400.00	7,000.00	7,000.00	77,000.00	77,000.00
23	Remove Existing City Sewer Manhole	1	EA	10,000.00	10,000.00	2,000.00	2,000.00	5,500.00	5,500.00	3,500.00	3,500.00	7,000.00	7,000.00
24	Remove Existing City 8" Sewer Line	45	LF	100.00	4,500.00	10.00	450.00	11.00	495.00	100.00	4,500.00	50.00	2,250.00
25	Remove Abandon IRWD Water Well	2	EA	10,000.00	20,000.00	15,000.00	30,000.00	16,400.00	32,800.00	35,000.00	70,000.00	3,500.00	7,000.00
26	Asphalt Concrete Pavement Base Course (Type III, B2-PG 64-10, 3/4")	20,150	TON	63.00	1,269,450.00	69.30	1,395,395.00	68.00	1,370,200.00	65.00	1,309,750.00	65.00	1,309,750.00
27	Asphalt Rubber Hot Mix (ARHM-GC-C-PG 64-10, 1/2")	8,080	TON	79.00	638,320.00	88.90	702,152.00	88.00	694,880.00	82.00	662,580.00	90.00	727,200.00
28	Curb Ramp per City of Tustin Std. No. 211 (211A)	18	EA	2,200.00	39,600.00	4,765.00	85,770.00	2,000.00	36,000.00	3,500.00	63,000.00	2,500.00	45,000.00
29	Curb Ramp per City of Tustin Std. No. 211R (211B)	1	EA	2,200.00	2,200.00	8,100.00	8,100.00	2,200.00	2,200.00	3,700.00	3,700.00	5,000.00	5,000.00
30	8" Curb & Gutter Type A-2 per City of Tustin Std. No. 201	10,836	LF	16.50	178,794.00	21.00	227,556.00	28.00	303,408.00	18.00	195,048.00	50.00	541,800.00
31	8" Curb & Gutter Type A per City of Tustin Std. No. 201	9,296	LF	14.00	130,144.00	18.00	167,328.00	32.00	297,572.00	17.00	158,032.00	50.00	464,800.00
32	Redwood Header	200	LF	6.00	1,200.00	14.00	2,800.00	10.90	2,180.00	15.00	3,000.00	5.00	1,000.00
33	Mandering Sidewalk per City of Tustin Std. No. 204	27,050	SF	3.65	98,732.50	4.00	108,200.00	4.40	119,020.00	3.50	94,675.00	4.50	121,725.00
34	Sidewalk per City of Tustin Std. No. 202	14,300	SF	3.65	52,195.00	4.00	57,200.00	3.30	47,190.00	3.40	48,620.00	5.00	71,500.00
35	Concrete Median Nose per City of Tustin Std. No. 213	7	EA	400.00	2,800.00	497.00	3,400.00	1,640.00	11,480.00	1,200.00	8,400.00	3,500.00	24,500.00
36	Cold Mill (0.2" Thick)	70,280	SF	0.35	24,598.00	0.33	23,192.40	1.20	84,336.00	0.30	21,084.00	1.00	70,280.00
37	Aggregate Base (City Furnished)	80,130	TON	6.75	540,877.50	20.00	1,602,600.00	10.30	825,339.00	8.00	641,040.00	3.50	280,455.00

AMRSTRONG AVENUE AND WARNER AVENUE EXTENSION PHASE 2 S

CIP NOS. 70201 & 702

BID OPENING : 10.00 A.M., MAF

ITEM NO.	CONTRACT ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	Los Angeles Engineering		Environmental Construction, Inc.		The Sam Group		USS Cal Builders		Minako America Corporation	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
38	Driveway per City of Tustin Std. No. 210	1,313	SF	6.50	8,534.50	5.00	6,565.00	9.00	11,817.00	10.00	13,130.00	10.00	13,130.00
39	Bus Turnout per Detail	13,884	SF	6.00	83,304.00	6.00	83,304.00	10.00	138,840.00	8.00	111,072.00	12.00	166,608.00
40	Local Depression per City of Tustin Std. No. 304	926	SF	16.00	14,816.00	16.00	14,816.00	23.00	21,298.00	15.00	13,890.00	10.00	9,260.00
41	2" Sch. 80 PVC Irrigation Sleeve	321	LF	5.50	1,765.50	6.00	1,926.00	17.00	5,457.00	11.00	3,531.00	10.00	3,210.00
42	3" Sch. 80 PVC Irrigation Sleeve	48	LF	6.50	312.00	7.00	338.00	17.00	816.00	13.00	624.00	15.00	720.00
43	4" Sch. 80 PVC Irrigation Sleeve	193	LF	9.50	1,833.50	9.00	1,737.00	22.00	4,246.00	15.00	2,895.00	15.00	2,895.00
44	6" Sch. 80 PVC Irrigation Sleeve	1,442	LF	10.50	15,141.00	20.00	28,840.00	21.00	30,282.00	20.00	28,840.00	20.00	28,840.00
45	Type A-2 to Type D Concrete Curb & Gutter Transition	336	LF	27.00	9,072.00	21.00	7,056.00	32.00	10,752.00	25.00	8,400.00	50.00	16,800.00
46	Adjust to Grade Storm Drain Manhole	8	EA	800.00	6,400.00	300.00	2,400.00	390.00	3,120.00	1,300.00	10,400.00	1,000.00	8,000.00
47	Adjust to Grade IRWD Sewer Manhole with Concrete Pad	1	EA	600.00	600.00	300.00	300.00	820.00	820.00	1,500.00	1,500.00	1,000.00	1,000.00
48	Adjust to Grade IRWD Water Gate Valve with Concrete Pad	1	EA	800.00	800.00	225.00	225.00	544.00	544.00	900.00	900.00	1,000.00	1,000.00
49	Adjust to Grade IRWD Water Gate Valve	20	EA	225.00	4,500.00	150.00	3,000.00	327.00	6,540.00	900.00	18,000.00	500.00	10,000.00
50	Metal Beam Guard Railing Detail per City of Tustin Std. No. 501	38	LF	66.00	2,470.00	66.00	2,508.00	54.00	2,052.00	75.00	2,850.00	100.00	3,800.00
51	Remove Striping	1	LS	29,000.00	29,000.00	17,567.00	17,567.00	13,064.00	13,064.00	18,000.00	18,000.00	20,000.00	20,000.00
52	Install Sign - 1 Post	32	EA	325.00	10,400.00	248.00	7,936.00	327.00	10,464.00	250.00	8,000.00	200.00	6,400.00
53	Install Sign - No Posts	98	EA	200.00	19,600.00	108.00	10,584.00	120.00	11,760.00	111.00	10,878.00	100.00	9,800.00
54	Remove Sign - 1 Post	2	EA	125.00	250.00	83.00	166.00	54.50	109.00	100.00	200.00	500.00	1,000.00
56	Remove Sign - No Posts	1	EA	75.00	75.00	83.00	83.00	39.00	39.00	100.00	100.00	100.00	100.00
56	Install Thermoplastic Traffic Striping Detail 9 per Caltrans Std. Plan	19,700	LF	0.60	11,820.00	0.40	7,880.00	0.40	7,880.00	0.32	6,304.00	0.50	9,850.00
57	Install Thermoplastic Traffic Striping Detail 25A per Caltrans Std. Plan	200	LF	0.75	150.00	1.10	220.00	0.70	140.00	1.00	200.00	1.00	200.00
58	Install Thermoplastic Traffic Striping Detail 27B per Caltrans Std. Plan	380	LF	0.65	247.00	1.10	418.00	0.70	266.00	1.00	380.00	1.00	380.00
59	Install Thermoplastic Traffic Striping Detail 29 per Caltrans Std. Plan	1,095	LF	2.20	2,409.00	2.30	2,518.50	1.20	1,314.00	2.00	2,190.00	3.00	3,285.00
60	Install Thermoplastic Traffic Striping Detail 38A per Caltrans Std. Plan	2,975	LF	0.85	2,528.75	3.10	9,222.50	1.20	3,570.00	3.00	8,925.00	1.00	2,975.00
61	Install Thermoplastic Traffic Striping Detail 39 per Caltrans Std. Plan	5,670	LF	0.65	3,685.50	1.00	5,670.00	0.90	5,103.00	1.00	5,670.00	1.00	5,670.00
62	Install Thermoplastic Traffic Striping Detail 39A per Caltrans Std. Plan	2,050	LF	0.65	1,332.50	1.00	2,050.00	0.40	820.00	1.00	2,050.00	1.00	2,050.00
63	Install Thermoplastic Traffic Striping Detail 40	2,140	LF	0.65	1,391.00	0.30	642.00	0.30	642.00	0.25	535.00	1.00	2,140.00
64	Install Thermoplastic Traffic Striping 4" Solid White or Yellow Line	2,850	LF	0.65	1,852.50	0.75	2,137.50	0.60	1,710.00	1.00	2,850.00	1.00	2,850.00
65	Install Thermoplastic Traffic Striping 12" Solid White or Yellow Line	4,580	LF	3.00	13,740.00	2.20	10,032.00	2.20	10,032.00	2.00	9,120.00	3.00	13,740.00
66	Install Thermoplastic Traffic Striping 12" Solid White or Yellow Line (Arrows)	3,200	SF	4.75	15,200.00	6.25	19,900.00	4.40	14,080.00	5.00	16,000.00	3.00	9,600.00
67	Paint Median Nose & Install Markers per City of Tustin Std. 507	12	EA	150.00	1,800.00	27.50	330.00	54.00	648.00	30.00	360.00	100.00	1,200.00
68	Traffic Signal - Warner Av. at Red Hill Av.	1	LS	225,000.00	225,000.00	253,573.10	253,573.10	217,730.00	217,730.00	295,000.00	295,000.00	277,000.00	277,000.00
69	Traffic Signal - Warner Av. at Future "G" St.	1	LS	225,000.00	225,000.00	228,074.00	228,074.00	196,000.00	196,000.00	275,000.00	275,000.00	267,000.00	267,000.00
70	Traffic Signal - Warner Av. at Armstrong Av.	1	LS	225,000.00	225,000.00	287,818.30	287,818.30	239,500.00	239,500.00	300,000.00	300,000.00	270,000.00	270,000.00
71	Traffic Signal - Warner Av. at Tustin Ranch Rd.	1	LS	225,000.00	225,000.00	241,116.70	241,116.70	206,840.00	206,840.00	275,000.00	275,000.00	257,000.00	257,000.00
72	Traffic Signal Interconnect	1	LS	125,000.00	125,000.00	112,439.60	112,439.60	174,190.00	174,190.00	160,000.00	160,000.00	137,000.00	137,000.00
73	Remove Temporary Catch Basin Riser	15	EA	400.00	6,000.00	300.00	4,500.00	550.00	8,250.00	2,800.00	42,000.00	200.00	3,000.00
74	Parkway Drain per SPPWC Std. Plan 151-2, Modified for Reverse Flow	14	EA	2,800.00	39,200.00	900.00	12,600.00	3,810.00	53,340.00	5,000.00	70,000.00	300.00	4,200.00
75	Inlet Type OS per City of Tustin Std. Plan 301 with United Storm Water, Inc. Wing	2	EA	8,000.00	16,000.00	6,000.00	12,000.00	7,621.00	15,242.00	7,500.00	15,000.00	7,000.00	14,000.00
76	Inlet Type OL per City of Tustin Std. Plan 302 with United Storm Water, Inc. Wing	13	EA	6,060.00	78,780.00	14,385.00	187,005.00	9,798.00	127,374.00	11,000.00	143,000.00	10,000.00	130,000.00

AMRSTRONG AVENUE AND WARNER AVENUE EXTENSION PHASE 2 S

CIP NOS. 70201 & 702

BID OPENING : 10.00 A.M., MAF

ITEM NO.	CONTRACT ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	Los Angeles Engineering		Environmental Construction, Inc.		The Sun Group		USS Cal Builders		Minato America Corporation	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
77	Modular Wetland System, Inc. DVLEKT modular water quality diversion weir	4	EA	560.00	2,240.00	1,500.00	6,000.00	545.00	2,180.00	15,000.00	60,000.00	750.00	3,000.00
78	Bio-Clean Round Curb Inlet Basket/Grate Inlet Skimmer Box Media Filter with	5	EA	3,000.00	15,000.00	4,000.00	20,000.00	3,811.00	19,055.00	5,000.00	25,000.00	1,000.00	5,000.00
79	Modular Wetland System, Inc. Model No. MWS-L-3-6	1	EA	18,600.00	18,600.00	16,560.00	16,560.00	21,800.00	21,800.00	15,000.00	15,000.00	12,000.00	12,000.00
80	Modular Wetland System, Inc. Model No. MWS-L-4-8	1	EA	24,500.00	24,500.00	23,070.00	23,070.00	21,800.00	21,800.00	15,000.00	15,000.00	15,000.00	15,000.00
81	Modular Wetland System, Inc. Model No. MWS-L-4-15-V	2	EA	33,000.00	66,000.00	33,310.00	66,620.00	32,660.00	65,320.00	15,000.00	30,000.00	10,000.00	20,000.00
82	Interlocking Concrete Pavers for Median Nosing Paving	5,307	SF	13.00	68,991.00	10.00	53,070.00	10.00	53,070.00	25.00	132,675.00	15.00	79,605.00
83	Interlocking Concrete Pavers for Maintenance Edge Paving	8,068	SF	16.00	129,088.00	20.00	161,360.00	14.00	112,952.00	25.00	201,700.00	15.00	121,020.00
84	Landscape Planting	1	LS	165,000.00	165,000.00	166,713.00	166,713.00	212,200.00	212,200.00	250,000.00	250,000.00	200,000.00	200,000.00
85	Maintenance & Plant Establishment Period	1	LS	3,500.00	3,500.00	1,000.00	1,000.00	19,600.00	19,600.00	7,000.00	7,000.00	10,000.00	10,000.00
86	Irrigation System	1	LS	220,000.00	220,000.00	217,313.00	217,313.00	304,900.00	304,900.00	325,000.00	325,000.00	237,000.00	237,000.00
Total for Warner Avenue Improvements					6,817,688.25		7,704,376.80		7,952,642.00		6,589,504.20		6,247,811.00
Armstrong Avenue Improvements													
87	Control of Nuisance Water	1	LS	1,500.00	1,500.00	5,000.00	5,000.00	21,780.00	21,780.00	50,000.00	50,000.00	30,000.00	30,000.00
88	Cleaving & Grubbing	1	LS	25,000.00	25,000.00	9,804.00	9,804.00	28,310.00	28,310.00	25,000.00	25,000.00	30,000.00	30,000.00
89	Roadway & Parkway Preparation Grading	326,800	SF	0.07	22,876.00	0.25	81,700.00	0.40	130,720.00	0.30	98,040.00	1.00	326,800.00
90	Underside Excavation Around Existing Utilities	400	CY	50.00	20,000.00	20.00	8,000.00	27.00	10,800.00	125.00	50,000.00	20.00	8,000.00
91	Fine Grading	1	LS	60,000.00	60,000.00	49,020.00	49,020.00	76,300.00	76,300.00	275,000.00	275,000.00	60,000.00	60,000.00
92	Bio-Swale Rock Wall	1,750	LF	188.00	329,000.00	56.00	98,000.00	120.00	210,000.00	65.00	113,750.00	50.00	87,500.00
93	4" PVC Sch 40 Pipe	1,506	LF	8.50	12,811.00	10.00	15,060.00	16.00	24,128.00	50.00	75,400.00	50.00	75,400.00
94	12" x 12" Area Drain	11	EA	400.00	4,400.00	110.00	1,210.00	381.00	4,191.00	550.00	6,050.00	750.00	8,250.00
95	Bio-Swale per Detail	1,288	LF	15.00	19,335.00	36.00	46,404.00	120.00	154,880.00	150.00	193,380.00	30.00	38,670.00
96	Asphalt Concrete Pavement Base Course (Type III, B2-PG 64-10, 34")	7,850	TON	64.00	502,400.00	68.30	544,005.00	68.00	533,800.00	85.00	510,250.00	68.00	533,800.00
97	Asphalt Rubber Hot Mix (ARHM-GC-C-PG 64-16, 12")	3,140	TON	79.00	248,060.00	86.90	272,866.00	86.00	270,940.00	82.00	257,480.00	100.00	314,000.00
98	Curb Ramp per City of Tustin Std. No. 211 (211A)	8	EA	2,200.00	17,600.00	5,617.50	44,940.00	3,484.00	27,872.00	3,500.00	28,000.00	2,500.00	20,000.00
99	6" Curb & Gutter Type A-2 per City of Tustin Std. No. 201	4,860	LF	16.50	80,190.00	30.40	102,060.00	30.40	147,744.00	18.00	87,480.00	50.00	243,000.00
100	6" Curb & Gutter Type A per City of Tustin Std. No. 201	1,025	LF	14.00	14,350.00	18.00	18,450.00	28.40	29,110.00	17.00	17,425.00	50.00	51,250.00
101	Redwood Header	218	LF	6.50	1,417.00	8.00	1,744.00	12.00	2,616.00	15.00	3,270.00	5.00	1,090.00
102	Meandering Sidewalk per City of Tustin Std. No. 204	15,325	SF	3.65	55,936.25	4.00	61,300.00	4.30	65,897.50	3.50	53,637.50	4.50	68,982.50
103	Sidewalk per City of Tustin Std. No. 202	23,050	SF	3.65	84,132.50	4.00	92,200.00	9.20	212,060.00	3.20	73,760.00	5.00	115,250.00
104	Aggregate Base (City Furnished)	27,200	TON	8.75	183,600.00	20.00	544,000.00	10.30	280,160.00	8.00	217,600.00	3.50	95,200.00
105	Bus Turnout per Detail	7,185	SF	6.00	43,116.00	6.50	46,702.50	10.00	71,850.00	10.00	71,850.00	12.00	86,220.00
106	Local Depression per City of Tustin Std. No. 304	1,260	SF	18.00	22,680.00	16.00	20,160.00	22.80	28,728.00	12.00	15,120.00	10.00	12,600.00
107	4" Sch. 80 PVC Irrigation Sleeve	49	LF	12.00	588.00	9.00	441.00	33.00	1,617.00	15.00	735.00	10.00	490.00
108	6" Sch. 80 PVC Irrigation Sleeve	3,060	LF	8.50	26,010.00	20.00	61,200.00	21.70	66,402.00	20.00	61,200.00	15.00	45,900.00
109	Type A-2 to Type D Concrete Curb & Gutter Transition	221	LF	27.00	5,967.00	21.00	4,641.00	35.00	7,735.00	25.00	5,525.00	50.00	11,050.00
110	Adjust to Grade Storm Drain Manhole	9	EA	800.00	7,200.00	300.00	2,700.00	382.00	3,438.00	1,200.00	10,800.00	1,000.00	9,000.00
111	Adjust to Grade Sanitary Sewer Manhole with Concrete Pad	12	EA	800.00	9,600.00	300.00	3,600.00	817.00	9,804.00	1,500.00	18,000.00	1,000.00	12,000.00
112	Adjust to Grade Sanitary Sewer Cleanout with Concrete Pad	1	EA	800.00	800.00	150.00	150.00	545.00	545.00	1,500.00	1,500.00	1,000.00	1,000.00

AMRSTRONG AVENUE AND WARNER AVENUE EXTENSION PHASE 2 S

CIP NOS. 70201 & 702

BID OPENING : 10.00 A.M., MAI

ITEM NO.	CONTRACT ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	Los Angeles Engineering		Environmental Construction, Inc.		The Sun Group		USS Cal Builders		Minako America Corporation	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
113	Adjust to Grade Gate Valve with Concrete Pad	19	EA	400.00	7,600.00	225.00	4,275.00	327.00	6,213.00	900.00	17,100.00	500.00	9,500.00
114	Relocate/Adjust to Grade Existing Blow Off per IRWD Std. W-14	4	EA	4,500.00	18,000.00	200.00	800.00	654.00	2,616.00	4,500.00	18,000.00	7,000.00	28,000.00
115	Relocate/Adjust to Grade Existing Fire Hydrant & Vacuum Assembly per IRWD Std. W-14	4	EA	3,900.00	15,600.00	200.00	800.00	550.00	2,200.00	4,800.00	19,200.00	7,000.00	28,000.00
116	Adjust Existing Fire Hydrant to Grade per IRWD Std. W-8	3	EA	3,300.00	9,900.00	400.00	1,200.00	440.00	1,320.00	3,700.00	11,100.00	1,000.00	3,000.00
117	Adjust Existing Cathodic Protection to Grade per IRWD Std. CP-7	3	EA	3,200.00	9,600.00	300.00	900.00	550.00	1,650.00	2,000.00	6,000.00	1,000.00	3,000.00
118	Relocate Existing Fire Hydrant per IRWD Std. W-8	1	EA	4,900.00	4,900.00	3,000.00	3,000.00	440.00	440.00	3,900.00	3,900.00	7,000.00	7,000.00
119	Remove Existing DW Blow-Off	1	EA	3,700.00	3,700.00	350.00	350.00	330.00	330.00	3,200.00	3,200.00	3,000.00	3,000.00
120	6" Concrete Curb & Gutter Type D per City of Tustin Std. No. 201	49	LF	25.00	1,225.00	19.00	931.00	26.00	1,274.00	25.00	1,225.00	50.00	2,450.00
121	Metal Beam Guard Railing per City of Tustin Std. No. 501	225	LF	50.00	11,250.00	66.00	14,850.00	87.00	19,575.00	50.00	11,250.00	100.00	22,500.00
122	Remove Striping	1	LS	9,300.00	9,300.00	3,034.00	3,034.00	5,500.00	5,500.00	4,000.00	4,000.00	10,000.00	10,000.00
123	Install Sign - 1 Post	18	EA	325.00	5,850.00	248.00	4,464.00	328.00	5,888.00	275.00	4,950.00	200.00	3,600.00
124	Install Sign - No Posts	39	EA	195.00	7,605.00	1.50	58.50	119.00	4,641.00	110.00	4,290.00	100.00	3,900.00
125	Remove Sign - 1 Post	5	EA	125.00	625.00	83.00	415.00	54.00	270.00	100.00	500.00	100.00	500.00
126	Remove Sign - No Posts	3	EA	75.00	225.00	83.00	249.00	38.00	114.00	100.00	300.00	100.00	300.00
127	Remove Type III Barricade	1	EA	1,500.00	1,500.00	385.00	385.00	32.00	32.00	250.00	250.00	1,000.00	1,000.00
128	Install Thermoplastic Traffic Striping Detail 9 per Caltrans Std. Plan	4,221	LF	0.60	2,532.60	0.40	1,688.40	0.50	2,110.50	0.30	1,266.30	0.50	2,110.50
129	Install Thermoplastic Traffic Striping Detail 22 per Caltrans Std. Plan	250	LF	1.00	250.00	3.10	775.00	1.50	375.00	3.00	750.00	1.00	250.00
130	Install Thermoplastic Traffic Striping Detail 29 per Caltrans Std. Plan	3,413	LF	2.20	7,508.60	3.10	10,580.30	1.50	5,119.50	3.00	10,239.00	2.00	6,826.00
131	Install Thermoplastic Traffic Striping Detail 37B per Caltrans Std. Plan	440	LF	1.00	440.00	1.10	484.00	1.00	440.00	1.00	440.00	1.00	440.00
132	Install Thermoplastic Traffic Striping Detail 38 per Caltrans Std. Plan	2,065	LF	1.00	2,065.00	2.10	4,336.50	1.00	2,065.00	2.00	4,130.00	1.00	2,065.00
133	Install Thermoplastic Traffic Striping Detail 36A per Caltrans Std. Plan	575	LF	0.85	488.75	2.10	1,207.50	1.20	690.00	2.00	1,150.00	1.00	575.00
134	Install Thermoplastic Traffic Striping Detail 36B per Caltrans Std. Plan	990	LF	1.10	1,089.00	2.10	2,079.00	1.50	1,485.00	2.00	1,980.00	1.00	990.00
135	Install Thermoplastic Traffic Striping Detail 39 per Caltrans Std. Plan	3,031	LF	0.65	1,970.15	1.00	3,031.00	1.00	3,031.00	1.00	3,031.00	1.00	3,031.00
136	Install Thermoplastic Traffic Striping Detail 36A per Caltrans Std. Plan	575	LF	0.65	373.75	1.00	575.00	0.50	287.50	1.00	575.00	1.00	575.00
137	Install Thermoplastic Traffic Striping Detail 40	238	LF	0.65	154.70	0.28	66.64	0.50	119.00	1.00	238.00	1.00	238.00
138	Install Thermoplastic Traffic Striping 4" Solid White Lead Line	450	LF	0.75	337.50	1.10	495.00	1.00	450.00	1.00	450.00	1.00	450.00
139	Install Thermoplastic Traffic Striping 4" Solid White or Yellow Line	90	LF	0.55	49.50	1.10	99.00	1.00	90.00	1.00	90.00	1.00	90.00
140	Install Thermoplastic Traffic Striping 12" Solid White or Yellow Line	688	LF	3.00	2,064.00	2.20	1,513.60	2.50	1,720.00	2.00	1,376.00	3.00	2,064.00
141	Install Thermoplastic Traffic Striping Pavement Markings (Symptoms, Lettering, & Arrows)	1,176	SF	4.75	5,588.00	5.25	6,174.00	4.50	5,292.00	5.00	5,880.00	3.00	3,528.00
142	Paint Median Nose & Install Markers per City of Tustin Std. 507	4	EA	150.00	600.00	28.00	112.00	54.50	218.00	30.00	120.00	100.00	400.00
143	Remove Temporary Catch Basin Riser	13	EA	312.00	4,056.00	300.00	3,900.00	545.00	7,085.00	3,500.00	45,500.00	200.00	2,600.00
144	24" RCP Storm Drain Pipe (D-Load per Plan)	26	LF	165.00	4,290.00	100.00	2,600.00	131.00	3,406.00	300.00	7,800.00	300.00	7,800.00
145	Parkway Drain per SPPWC Std. Plan 151-2, Modified for Reverse Flow	11	EA	2,800.00	30,800.00	1,000.00	11,000.00	3,811.00	41,921.00	5,000.00	55,000.00	4,000.00	44,000.00
146	Install Type U/L per City of Tustin Std. Plan 301 with Unseed Storm Inlets, inc. veng.	2	EA	8,100.00	16,200.00	8,000.00	16,000.00	7,830.00	15,660.00	8,000.00	16,000.00	5,000.00	10,000.00
147	Install Type U/L per City of Tustin Std. Plan 302 with Unseed Storm Inlets, inc. veng.	14	EA	14,500.00	203,000.00	13,000.00	182,000.00	9,800.00	137,200.00	18,000.00	252,000.00	15,000.00	210,000.00
148	Install Type U/L per City of Tustin Std. Plan 303 with Unseed Storm Inlets, inc. veng.	14	EA	3,300.00	46,200.00	4,000.00	56,000.00	3,820.00	53,480.00	5,000.00	70,000.00	5,000.00	70,000.00
149	Interlocking Concrete Pavers for Median Nosing Paving	632	SF	13.00	8,216.00	10.00	6,320.00	10.00	6,320.00	30.00	18,960.00	15.00	9,480.00
150	Interlocking Concrete Pavers for Maintenance Edge Paving	832	SF	16.00	13,312.00	20.00	16,640.00	14.00	11,648.00	30.00	24,960.00	15.00	12,480.00
151	Landscape Planting	1	LS	45,000.00	45,000.00	66,813.00	66,813.00	48,990.00	48,990.00	74,000.00	74,000.00	50,000.00	50,000.00

ARMSTRONG AVENUE AND WARNER AVENUE EXTENSION PHASE 2 S

CIP NOS. 70201 & 702

BID OPENING : 10.00 A.M., MAF

				Los Angeles Engineering 833 N. Barranca Ave. Covina, CA 91723 626-454-5222		Environmental Construction, Inc. 21550 Omar St., Ste. #1050 Woodland Hills, CA 91367 818-448-8920		The Sun Group 3151 Airway Ave., Bldg. V Costa Mesa, CA 92626 949-476-3133		USS Cal Builders 8051 Main St. Stanton, CA 90680 714-828-4882		Misco America Corporation 522 E. Alhine Way Gardena, CA 90288 310-516-8100		
ITEM NO.	CONTRACT ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	
152	Maintenance & Plant Establishment Period	1	LS	2,500.00	2,500.00	1,000.00	1,000.00	10,890.00	10,890.00	2,000.00	2,000.00	7,000.00	7,000.00	
153	Irrigation System	1	LS	75,000.00	75,000.00	63,195.90	63,195.90	103,430.00	103,430.00	145,000.00	145,000.00	77,000.00	77,000.00	
Total for Armstrong Avenue Improvements						2,379,589.30		2,829,781.34		2,935,503.00		3,168,432.00		2,935,187.00
Warner Avenue & Armstrong Avenue Dry Utility Improvements														
Southern California Edison (SCE)														
154	Furnish & Install 5" Electrical Conduit - DB100	41,572	LF	9.10	378,305.20	9.40	390,778.80	23.00	956,156.00	6.50	270,218.00	20.00	831,440.00	
155	Furnish & Install 3" Electrical Conduit - DB60	6,819	LF	6.50	44,323.50	7.20	49,096.80	21.00	143,199.00	3.00	20,457.00	20.00	136,280.00	
156	Furnish & Install 1 1/2" Electrical Conduit - DB60	6,678	LF	3.00	20,034.00	3.30	22,027.40	19.00	127,582.00	4.50	31,401.00	15.00	104,870.00	
157	Furnish & Install Hand-hole 17" x 30" (Parkway)	33	EA	325.00	10,725.00	358.00	11,814.00	360.00	11,880.00	450.00	14,850.00	2,000.00	66,000.00	
158	Furnish & Install Transformer Pad 48" x 54" with 17" x 30" Inverted FH	3	EA	2,200.00	6,600.00	2,420.00	7,260.00	4,900.00	14,700.00	1,000.00	3,000.00	10,000.00	30,000.00	
159	Furnish & Install PNE Pad 5' x 10.5' x 7"	4	EA	13,000.00	52,000.00	14,300.00	57,200.00	16,300.00	65,320.00	15,000.00	60,000.00	15,000.00	60,000.00	
160	Furnish & Install MH 6' x 12' x 7"	5	EA	15,500.00	77,500.00	17,050.00	85,250.00	17,420.00	87,100.00	18,000.00	90,000.00	18,000.00	90,000.00	
161	Furnish & Install 7' x 14' x 18" Vault	4	EA	35,000.00	140,000.00	38,500.00	154,000.00	27,220.00	108,880.00	24,000.00	96,000.00	20,000.00	80,000.00	
162	Furnish & Install 66" X 72" Cap Pad	1	EA	1,800.00	1,800.00	1,980.00	1,980.00	1,090.00	1,090.00	1,200.00	1,200.00	2,000.00	2,000.00	
AT & T (Telephone)														
163	Furnish & Install 4" Telephone Conduit - Type C	37,330	LF	2.75	102,657.50	3.10	115,723.00	23.00	858,590.00	4.50	167,985.00	20.00	748,800.00	
164	Furnish & Install Manhole 6' x 12' x 7"	6	EA	11,000.00	66,000.00	12,100.00	72,600.00	21,773.00	130,638.00	17,000.00	102,000.00	18,000.00	108,000.00	
Trench (including Encasement when required)														
165	Trench For Mainline Joint	7,954	LF	9.00	71,586.00	9.90	78,744.60	20.00	159,080.00	10.00	79,540.00	30.00	238,620.00	
166	Trench for Electrical Only	3,472	LF	9.00	31,248.00	9.90	34,372.80	20.00	69,440.00	10.00	34,720.00	30.00	104,160.00	
167	Trench for Street Light Only	3,078	LF	9.00	27,702.00	9.90	30,472.20	19.00	58,482.00	10.00	30,780.00	25.00	76,950.00	
168	Trench for Telephone Only	1,439	LF	6.00	8,634.00	6.60	9,497.40	19.00	27,341.00	7.00	10,073.00	25.00	35,975.00	
169	Trench for CATV (COX) Only	205	LF	6.00	1,230.00	6.60	1,353.00	22.00	4,510.00	8.00	1,640.00	25.00	5,125.00	
170	Trench for CATV (TWC) Only	205	LF	6.00	1,230.00	6.60	1,353.00	22.00	4,510.00	8.00	1,640.00	25.00	5,125.00	
171	Trench for Spare Only	206	LF	6.00	1,230.00	6.60	1,353.00	22.00	4,510.00	8.00	1,640.00	30.00	6,150.00	
CATV (COX & TWC)														
172	Provide Excavation & Backfill for COX 2' x 3' Pull-box	4	EA	400.00	1,600.00	440.00	1,760.00	1,000.00	4,000.00	1,200.00	4,800.00	2,000.00	8,000.00	
173	Provide Excavation & Backfill for COX 3' x 5' Pull-box	8	EA	800.00	6,400.00	880.00	7,040.00	2,800.00	22,400.00	1,400.00	11,200.00	3,000.00	24,000.00	
174	Provide Excavation & Backfill for COX 18" X 36" Node Pedestal	2	EA	400.00	800.00	440.00	880.00	1,090.00	2,180.00	250.00	500.00	1,000.00	2,000.00	
175	Provide Excavation & Backfill for TWC 2' x 3' Pull-box	2	EA	400.00	800.00	440.00	880.00	1,090.00	2,180.00	1,000.00	2,000.00	2,000.00	4,000.00	
176	Provide Excavation & Backfill for TWC 3' x 5' Pull-box	5	EA	800.00	4,000.00	880.00	4,400.00	2,730.00	13,650.00	1,300.00	6,500.00	3,000.00	15,000.00	
Spare Conduit														
177	Furnish & Install Spare 4" Conduit Sch. 40	16,444	LF	5.00	82,220.00	5.50	101,442.00	23.00	424,212.00	4.50	82,998.00	3.00	55,332.00	
178	Furnish & Install Spare Pull-box 2' x 3' x 3'	11	EA	800.00	8,800.00	880.00	9,680.00	2,200.00	24,200.00	4,000.00	44,000.00	3,000.00	33,000.00	
Additional Items														
179	Gas 6" Sleeve	699	LF	18.00	12,582.00	19.80	13,840.20	220.00	153,780.00	40.00	27,960.00	699.00	488,601.00	

AMRSTRONG AVENUE AND WARNER AVENUE EXTENSION PAHSE 2 5

CIP NOS. 70201 & 702

BID OPENING : 10.00 A.M., MAF

ITEM NO.	CONTRACT ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	Los Angeles Engineering		Environmental Construction, Inc.		The Sun Group		USS Cal Builders		Mitsuko America Corporation	
				UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
Total for Dry Utility Improvements					1,170,907.20		1,285,798.20		3,484,810.00		1,197,102.00		3,387,128.00
<u>Warner Avenue & Armstrong Avenue IRWD Non-Capital Improvements</u>													
<u>Sewer</u>													
180	Install 10" PVC, SDR-35, Sewer per IRWD Std. S-6	1,020	LF	210.00	214,200.00	55.00	56,100.00	33.00	33,660.00	300.00	306,000.00	100.00	102,000.00
181	Install 8" PVC, SDR-35, Sewer per IRWD Std. S-6	1,253	LF	217.00	271,901.00	50.00	62,650.00	33.00	41,549.00	285.00	368,635.00	90.00	112,770.00
182	Install 6" PVC, SDR-35, Sewer per IRWD Std. S-6	241	LF	150.00	36,150.00	45.00	10,845.00	33.00	7,953.00	290.00	69,890.00	80.00	21,590.00
183	Construct 48" Sewer Manhole per IRWD Std. S-1	12	EA	11,000.00	132,000.00	5,250.00	63,000.00	6,709.00	104,508.00	18,000.00	216,000.00	20,000.00	240,000.00
184	Install Terminal Cleanout Per IRWD Std. S-6	6	EA	2,080.00	12,480.00	2,450.00	14,700.00	979.00	5,874.00	1,700.00	10,200.00	3,000.00	18,000.00
185	Remove Plug & Join Existing	2	EA	1,210.00	2,420.00	2,000.00	4,000.00	6,710.00	17,420.00	2,500.00	5,000.00	1,000.00	2,000.00
186	Install Sewer Plug	5	EA	450.00	2,250.00	300.00	1,500.00	545.00	2,725.00	1,300.00	6,500.00	1,000.00	5,000.00
187	Install Sewer Lateral with Cleanout per IRWD Std. S-3, S-4, S-5	2	EA	7,550.00	15,100.00	2,600.00	5,200.00	980.00	1,960.00	3,000.00	6,000.00	1,000.00	2,000.00
188	Remove IRWD Sewer Manhole	1	EA	3,530.00	3,530.00	1,000.00	1,000.00	2,178.00	2,178.00	6,000.00	6,000.00	7,000.00	7,000.00
189	Remove IRWD 8" Sewer Pipe	28	LF	90.00	2,520.00	15.00	420.00	8.00	168.00	95.00	2,660.00	100.00	2,800.00
190	Plug End of Existing Sewer Manhole	1	EA	4,050.00	4,050.00	300.00	300.00	109.00	109.00	3,200.00	3,200.00	1,000.00	1,000.00
<u>Domestic Water</u>													
191	Install 8" AWWA C-900 PVC, DR 14, Domestic Water Pipe per IRWD Std. W-16	30	LF	175.00	5,250.00	43.00	1,290.00	64.40	1,932.00	100.00	3,000.00	100.00	3,000.00
192	Install 10" AWWA C-900 PVC, DR 14 CL 305, Domestic Water Pipe per IRWD	3,628	LF	70.00	253,820.00	51.00	184,926.00	29.00	105,154.00	105.00	380,730.00	80.00	290,080.00
193	Deleted												
194	Install 10" x 10" DI (FE X FE) Tee & Thrust Block per IRWD Std. W-16	2	EA	1,950.00	3,900.00	1,000.00	2,000.00	2,000.00	4,000.00	4,000.00	8,000.00	500.00	1,000.00
195	Install 10" 22.5 Degree DI (FE X PO) Bend & Thrust Block per IRWD Std. W-16	2	EA	1,720.00	3,440.00	400.00	800.00	1,100.00	2,200.00	2,400.00	4,800.00	1,000.00	2,000.00
196	Install 10" 90 Degree DI (FE X FE) Bend & Thrust Block per IRWD Std. W-16	1	EA	1,910.00	1,910.00	610.00	610.00	2,000.00	2,000.00	2,400.00	2,400.00	1,000.00	1,000.00
197	Install 10" 45 Degree DI (PO X PO) Bend & Thrust Block per IRWD Std. W-16	2	EA	1,530.00	3,060.00	465.00	930.00	1,100.00	2,200.00	2,300.00	4,600.00	1,000.00	2,000.00
198	Install Fire Hydrant per IRWD Std. W-9 & Valve Box per IRWD Std. W-12	7	EA	15,700.00	109,900.00	6,500.00	45,500.00	10,900.00	76,300.00	10,000.00	70,000.00	10,000.00	70,000.00
199	Install Temporary Flush-Out Assembly per IRWD Std. W-12	2	EA	5,630.00	11,260.00	2,050.00	4,100.00	1,700.00	3,400.00	4,200.00	8,400.00	2,500.00	5,000.00
200	Install 8" Gate Valve (FE X FE) & Valve Box per IRWD Std. W-22	1	EA	3,500.00	3,500.00	2,850.00	2,850.00	3,300.00	3,300.00	4,500.00	4,500.00	3,000.00	3,000.00
201	Install 10" DW Gate Valve (FE X FE) & Valve Box per IRWD Std. W-22	8	EA	5,870.00	47,760.00	3,850.00	30,800.00	4,355.00	34,840.00	5,500.00	44,000.00	7,000.00	56,000.00
202	Deleted												
203	Install 10" FE X PO Adaptor	4	EA	1,010.00	4,040.00	510.00	2,040.00	1,700.00	6,800.00	1,200.00	4,800.00	1,000.00	4,000.00
204	Install 10" x 6" (FE X FE) Reducer	1	EA	1,700.00	1,700.00	300.00	300.00	544.00	544.00	1,500.00	1,500.00	1,000.00	1,000.00
205	Install 12" x 10" (FE X FE) Reducer	1	EA	1,950.00	1,950.00	520.00	520.00	1,090.00	1,090.00	1,800.00	1,800.00	1,000.00	1,000.00
206	Remove Temporary Flush-Out Assembly & Join Existing	1	EA	4,350.00	4,350.00	2,000.00	2,000.00	1,700.00	1,700.00	4,000.00	4,000.00	1,000.00	1,000.00
207	Deleted												
208	Install 12" x 10" DI (FE X FE) Cross & Thrust Block per IRWD Std. W-16	1	EA	2,980.00	2,980.00	800.00	800.00	2,721.00	2,721.00	5,500.00	5,500.00	2,000.00	2,000.00
209	Install Flex Coupling - 12"	2	EA	2,020.00	4,040.00	1,359.00	2,718.00	1,100.00	2,200.00	1,700.00	3,400.00	2,000.00	4,000.00
210	Install 12" DW Butterfly Valve (FE X FE) & Valve Box per IRWD Std. W-22	2	EA	7,090.00	14,180.00	3,900.00	7,800.00	1,100.00	2,200.00	8,000.00	16,000.00	7,000.00	14,000.00
211	Install 8" x 6" DI (FE X FE) Tee & Thrust Block per IRWD Std. W-16	1	EA	1,840.00	1,840.00	1,100.00	1,100.00	1,700.00	1,700.00	1,700.00	1,700.00	1,000.00	1,000.00
212	Install 10" x 6" DI (FE X FE) Tee & Thrust Block per IRWD Std. W-16	3	EA	1,330.00	3,990.00	1,850.00	4,950.00	1,700.00	5,100.00	1,800.00	5,400.00	2,000.00	6,000.00

AMRSTRONG AVENUE AND WARNER AVENUE EXTENSION PHASE 2 5'

CIP NOS. 70201 & 702

BID OPENING : 10.00 A.M., MAF

				Los Angeles Engineering 833 N. Berman Ave. Covina, CA 91723 626-454-5222		Environmental Construction, Inc. 21650 Conard St., Ste. #1050 Woodland Hills, CA 91367 818-449-8920		The Sun Group 3151 Airway Ave., Bldg. V Costa Mesa, CA 92626 949-476-3133		USS Cal Builders 8051 Main St. Stanton, CA 90680 714-829-4882		Miraflo America Corporation 522 E. Airline Way Gardena, CA 90258 310-516-8100	
ITEM NO.	CONTRACT ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
213	Install Blind Flange & Thrust Block per IRWD Std. W-16	1	EA	1,850.00	1,850.00	550.00	550.00	1,700.00	1,700.00	2,200.00	2,200.00	1,900.00	1,900.00
214	Install 10" x 8" DI (FE X FE) Tee & Thrust Block per IRWD Std. W-16	2	EA	1,850.00	3,700.00	1,700.00	3,400.00	2,200.00	4,400.00	1,700.00	3,400.00	2,500.00	5,000.00
	<u>Recycled Water</u>												
215	Install 4" AWWA C-900 PVC Purple Pipe, DR-14, recycled water per IRWD Std. W-17	46	LF	164.00	7,544.00	30.00	1,380.00	32.00	1,472.00	85.00	3,910.00	50.00	2,300.00
216	Install 4" RW Gate Valve (FE X FE) & Valve Box per IRWD Std. W-22	1	EA	2,160.00	2,160.00	1,100.00	1,100.00	1,100.00	1,100.00	1,500.00	1,500.00	3,000.00	3,000.00
217	Install 4" DI (FE X PD) Adaptor	1	EA	585.00	585.00	165.00	165.00	600.00	600.00	750.00	750.00	1,000.00	1,000.00
218	Deleted												
219	Deleted												
220	Deleted												
221	Install 1" Copper Service With 1" Meter per IRWD Std. W-1 (Non-Capital)	5	EA	4,340.00	21,700.00	2,200.00	11,000.00	1,700.00	8,500.00	5,000.00	25,000.00	1,500.00	7,500.00
222	Install 2" Copper Service With 1" Meter per IRWD Std. W-1 (Non-Capital)	4	EA	5,630.00	22,520.00	4,850.00	19,800.00	3,300.00	13,200.00	4,800.00	19,200.00	2,500.00	10,000.00
223	Install Blow-Off Assembly per IRWD Std. W-14	1	EA	16,900.00	16,900.00	6,400.00	6,400.00	9,800.00	9,800.00	10,000.00	10,000.00	7,000.00	7,000.00
224	Install Temporary Flush-Out Assembly per IRWD Std. W-12	1	EA	4,500.00	4,500.00	700.00	700.00	2,180.00	2,180.00	1,200.00	1,200.00	1,000.00	1,000.00
	Total IRWD Non-Capital Improvements				1,268,390.00		598,744.00		520,237.00		1,642,775.00		1,019,140.00
	<u>Warner Avenue & Armstrong Avenue IRWD Capital Improvements</u>												
	<u>Domestic Water</u>												
225	Install 12" AWWA C-900 PVC, DR-14, Domestic Water Pipe per IRWD Std. W-17	138	LF	191.00	26,358.00	67.00	9,246.00	109.00	15,042.00	160.00	22,080.00	125.00	17,250.00
226	Deleted												
227	Deleted												
228	Install Temporary Flush-Out Assembly per IRWD Std. W-12	1	EA	6,300.00	6,300.00	3,000.00	3,000.00	2,180.00	2,180.00	1,200.00	1,200.00	1,000.00	1,000.00
229	Deleted												
230	Deleted												
231	Deleted												
232	Remove DW 12" Blind Flange & Join Existing	1	EA	4,500.00	4,500.00	3,000.00	3,000.00	1,090.00	1,090.00	2,600.00	2,600.00	1,000.00	1,000.00
233	Relocate Existing DW Air Release	1	EA	4,200.00	4,200.00	600.00	600.00	1,090.00	1,090.00	2,400.00	2,400.00	7,000.00	7,000.00
	<u>Recycled Water</u>												
234	Install 6" AWWA C-900 PVC Purple Pipe per IRWD Std. W-17	3,416	LF	50.00	170,900.00	40.00	136,720.00	28.00	95,704.00	50.00	170,900.00	50.00	170,900.00
235	Install 10" AWWA C-900 PVC Purple Pipe, DR-14, per IRWD Std. W-17	2,085	LF	70.00	145,950.00	50.00	104,250.00	55.00	114,675.00	110.00	229,350.00	80.00	166,800.00
236	Install 12" AWWA C-900 PVC, DR-14, per IRWD Std. W-17	51	LF	170.00	8,670.00	70.00	3,570.00	110.00	5,610.00	160.00	8,160.00	100.00	5,100.00
237	Install 18" AWWA C-905 DR-16 PVC Purple Pipe per IRWD Std. W-17	520	LF	130.00	67,600.00	85.00	44,200.00	120.00	62,400.00	180.00	93,600.00	150.00	78,000.00
238	Install 6" DI 45 Degree Bend (FE X FE) & Thrust Block per IRWD Std. W-16	4	EA	650.00	2,600.00	370.00	1,480.00	440.00	1,760.00	1,000.00	4,000.00	1,000.00	4,000.00
239	Install 6" DI 45 Degree Bend (FE X MJ)	4	EA	700.00	2,800.00	525.00	2,100.00	440.00	1,760.00	1,000.00	4,000.00	1,000.00	4,000.00

AMRSTRONG AVENUE AND WARNER AVENUE EXTENSION PHASE 2 S

CIP NOS. 70201 & 702

BID OPENING : 10.00 A.M., MAF

				Los Angeles Engineering 633 N. Barranca Ave. Covina, CA 91723 626-454-5222		Environmental Construction, Inc. 21550 Oxnard St., Ste. #1050 Woodland Hills, CA 91367 818-449-8920		The Sun Group 3151 Alhambra Ave., Bldg. V Costa Mesa, CA 92626 949-478-3133		USS Cal Builders 8051 Main St Stanton, CA 90680 714-828-4882		Minako America Corporation 522 E. Airline Way Gardena, CA 90258 310-616-8100	
ITEM NO.	CONTRACT ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
240	Install 4" RW Gate Valve (FE X FE) & Valve Box per IRWD Std. W-22	1	EA	2,000.00	2,000.00	1,350.00	1,350.00	2,180.00	2,180.00	1,500.00	1,500.00	2,000.00	2,000.00
241	Install 6" RW Gate Valve (FE X FE) & Valve Box per IRWD Std. W-22	9	EA	2,200.00	19,800.00	1,700.00	15,300.00	1,910.00	17,190.00	4,500.00	40,500.00	3,000.00	27,000.00
242	Install 10" RW Gate Valve (Fe X Fe) & Valve Box per IRWD Std. W-22	1	EA	4,820.00	4,820.00	4,000.00	4,000.00	6,540.00	6,540.00	5,500.00	5,500.00	5,000.00	5,000.00
243	Install 12" X 12" X 6" X 6" D Cross (FE X FE) & Thrust Block per IRWD Std. W-16	1	EA	1,400.00	1,400.00	1,200.00	1,200.00	2,730.00	2,730.00	6,200.00	6,200.00	2,000.00	2,000.00
244	Install 16" X 6" DI Cross (FE X FE) & Thrust Block per IRWD Std. W-16	1	EA	2,000.00	2,000.00	1,720.00	1,720.00	3,270.00	3,270.00	7,000.00	7,000.00	2,000.00	2,000.00
245	Install 6" X 4" DI Tee (FE X FE) & Thrust Block per IRWD Std. W-16	1	EA	700.00	700.00	340.00	340.00	1,100.00	1,100.00	1,200.00	1,200.00	1,000.00	1,000.00
246	Install 6" X 6" DI Tee (FE X FE) & Thrust Block per IRWD Std. W-16	1	EA	700.00	700.00	300.00	300.00	1,100.00	1,100.00	1,500.00	1,500.00	1,000.00	1,000.00
247	Install 16" Butterfly Valve (FE X FE) & Valve Box per IRWD Std. W-22	2	EA	8,000.00	12,000.00	5,470.00	10,940.00	8,710.00	17,420.00	11,000.00	22,000.00	10,000.00	20,000.00
248	Install 12" Butterfly Valve (FE X FE) & Valve Box per IRWD Std. W-22	1	EA	4,300.00	4,300.00	3,850.00	3,850.00	5,450.00	5,450.00	10,000.00	10,000.00	7,000.00	7,000.00
249	Install 11.25 Degree DI Bend (FO X FO) & Thrust Block per IRWD Std. W-16	2	EA	500.00	1,000.00	200.00	400.00	820.00	1,640.00	1,200.00	2,400.00	1,000.00	2,000.00
250	Install 6" 22.5 Degree DI Bend (FO X FO) & Thrust Block per IRWD Std. W-16	2	EA	500.00	1,000.00	200.00	400.00	820.00	1,640.00	1,500.00	3,000.00	1,000.00	2,000.00
251	Install 6" 45 Degree DI Bend (FO X FO) & Thrust Block per IRWD Std. W-16	2	EA	425.00	850.00	170.00	340.00	1,088.00	2,176.00	1,200.00	2,400.00	1,000.00	2,000.00
252	Install 6" DIP Spool (FE X FE) Class 350 per IRWD Std. W-17	84	LF	290.00	18,560.00	82.00	5,248.00	131.00	8,384.00	290.00	12,800.00	100.00	6,400.00
253	Install 16" DI (FE X FO) Adapter	1	EA	1,200.00	1,200.00	1,370.00	1,370.00	1,640.00	1,640.00	2,000.00	2,000.00	2,500.00	2,500.00
254	Install 12" DI (FE X FO) Adapter	2	EA	700.00	1,400.00	875.00	1,750.00	1,089.00	2,178.00	1,600.00	3,200.00	1,500.00	3,000.00
255	Install 10" DI (FE X FO) Adapter	3	EA	550.00	1,650.00	510.00	1,530.00	900.00	2,700.00	1,300.00	3,900.00	1,000.00	3,000.00
256	Install 6" DI (FE X FO) Adapter	7	EA	350.00	2,450.00	265.00	1,855.00	600.00	4,200.00	1,200.00	8,400.00	1,000.00	7,000.00
257	Install 16" to 10" (FE X FE) DI Reducer	1	EA	1,500.00	1,500.00	1,200.00	1,200.00	1,633.00	1,633.00	2,100.00	2,100.00	2,000.00	2,000.00
258	Install 12" to 10" (FE X FE) DI Reducer	1	EA	900.00	900.00	550.00	550.00	1,069.00	1,069.00	1,650.00	1,650.00	2,000.00	2,000.00
259	Install Two Wire Test Station per IRWD Std. CP-1	4	EA	1,700.00	6,800.00	700.00	2,800.00	820.00	3,280.00	1,700.00	6,800.00	1,000.00	4,000.00
260	Install 1" Air Release & Vacuum Assembly per IRWD Std. W-11	6	EA	4,500.00	27,000.00	2,100.00	12,600.00	4,300.00	25,800.00	7,500.00	45,000.00	3,000.00	18,000.00
261	Install Temporary Flush-Out Assembly per IRWD Std. W-12	4	EA	2,500.00	10,000.00	3,000.00	12,000.00	1,700.00	6,800.00	1,800.00	7,200.00	2,000.00	8,000.00
262	Install End of Line Cap & Thrust Block per IRWD Std. W-16	1	EA	1,300.00	1,300.00	200.00	200.00	600.00	600.00	1,300.00	1,300.00	1,000.00	1,000.00
263	Install Flush-Out Assembly per IRWD Std. W-13	1	EA	4,300.00	4,300.00	1,775.00	1,775.00	5,450.00	5,450.00	5,500.00	5,500.00	3,000.00	3,000.00
264	Install Blow-Off Assembly per IRWD Std. W-14	2	EA	12,000.00	24,000.00	7,500.00	15,000.00	13,070.00	26,140.00	18,000.00	36,000.00	7,000.00	14,000.00
265	Remove Existing RW Blow-Off	1	EA	1,800.00	1,800.00	500.00	500.00	1,090.00	1,090.00	2,500.00	2,500.00	3,000.00	3,000.00
266	Remove Existing 12" Blind Flange & Join Existing 12" RW Main	1	EA	2,900.00	2,900.00	2,000.00	2,000.00	2,200.00	2,200.00	1,200.00	1,200.00	1,000.00	1,000.00
267	Remove Temporary Flush-Out Assembly & Join Existing	3	EA	3,300.00	9,900.00	2,000.00	6,000.00	1,060.00	3,270.00	2,500.00	7,500.00	2,000.00	6,000.00
Total IRWD Capital Improvements					605,908.00		414,284.00		460,201.00		788,540.00		611,950.00
Miscellaneous													
268	Provide Legal Pollution Liability Insurance for the Next 5 Year After the Date of	5	YR	3,000.00	15,000.00	10,000.00	50,000.00	12,000.00	60,000.00	20,000.00	100,000.00	10,000.00	50,000.00
269	Core Catch Basin & Connect 4" PVC Pipe	1	EA	1,600.00	1,600.00	2,800.00	2,800.00	1,900.00	1,900.00	1,000.00	1,000.00	500.00	500.00
GRAND TOTAL					12,251,032.75		12,625,982.34		15,415,093.00		15,487,354.00		16,220,916.00
Contractor's Total Price Amount as shown in the Bid Document					12,251,032.75		12,625,982.34		15,485,096.00		15,487,354.00		15,777,105.00
± Correction					-		-		(70,006.00)		-		443,811.00
Percent ± Engineer's Estimate					-5.76%		-2.88%		18.58%		19.13%		24.78%

IRVINE RANCH WATER DISTRICT

EXHIBIT "D"

Expenditure Authorization

Project Name: TUSTIN LEGACY WARNER FROM ARMSTRONG TO LEGACY DW
EPMS Project No: 11746 **EA No:** 1 **ID Split:** Miscellaneous
Oracle Project No: 4988
Project Manager: CORTEZ, MALCOLM
Project Engineer: LEW, KELLY
Request Date: April 21, 2014

Improvement District (ID) Allocations		
ID No.	Allocation %	Source of Funds
113	100.0	BONDS YET TO BE SOLD**
Total	100.0%	

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$60,500
Total EA Requests:	\$60,500
Previously Approved Budget:	\$0
Budget Adjustment Requested this EA:	\$60,500
Updated Budget:	\$60,500
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	2,000	0	2,000	2,000	0	2,000	11/13	6/14
ENGINEERING DESIGN - OUTSIDE	5,000	0	5,000	5,000	0	5,000	11/13	6/14
DESIGN STAFF FIELD SUPPORT	1,000	0	1,000	1,000	0	1,000	11/13	6/14
ENGINEERING - CA&I IRWD	5,000	0	5,000	5,000	0	5,000	7/14	9/15
ENGINEERING - CA&I OUTSIDE	5,000	0	5,000	5,000	0	5,000	7/14	9/15
CONSTRUCTION FIELD SUPPORT	1,000	0	1,000	1,000	0	1,000	7/14	9/15
CONSTRUCTION	35,000	0	35,000	35,000	0	35,000	7/14	9/15
LEGAL	1,000	0	1,000	1,000	0	1,000	11/13	9/15
Contingency - 10.00% Subtotal	\$5,500	\$0	\$5,500	\$5,500	\$0	\$5,500		
Subtotal (Direct Costs)	\$60,500	\$0	\$60,500	\$60,500	\$0	\$60,500		
Estimated G/A - 170.00% of direct labor*	\$15,300	\$0	\$15,300	\$15,300	\$0	\$15,300		
Total	\$75,800	\$0	\$75,800	\$75,800	\$0	\$75,800		
Direct Labor	\$9,000	\$0	\$9,000	\$9,000	\$0	\$9,000		

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

EA Originator:

Kelly Lew 5/2/14

Department Director:

Kevin L. Burton 5/8/14

Finance:

[Signature] 5/14/14

Board/General Manager:

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$78,000 additional documents, if any, which are hereby incorporated into this project is made under Treasury Regulation Section 1.150-2.

IRVINE RANCH WATER DISTRICT

Expenditure Authorization

Project Name: TUSTIN LEGACY WARNER FROM ARMSTRONG TO LEGACY RW
EPMS Project No: 31746 **EA No:** 1 **ID Split:** Miscellaneous
Oracle Project No: 4989
Project Manager: CORTEZ, MALCOLM
Project Engineer: LEW, KELLY
Request Date: April 21, 2014

Improvement District (ID) Allocations		
ID No.	Allocation %	Source of Funds
213	100.0	BONDS YET TO BE SOLD**
Total	100.0%	

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$282,700
Total EA Requests:	\$282,700
Previously Approved Budget:	\$0
Budget Adjustment Requested this EA:	\$282,700
Updated Budget:	\$282,700
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	15,000	0	15,000	15,000	0	15,000	11/13	6/14
ENGINEERING DESIGN - OUTSIDE	20,000	0	20,000	20,000	0	20,000	11/13	6/14
DESIGN STAFF FIELD SUPPORT	10,000	0	10,000	10,000	0	10,000	11/13	6/14
ENGINEERING - CA&I IRWD	15,000	0	15,000	15,000	0	15,000	7/14	9/15
ENGINEERING - CA&I OUTSIDE	15,000	0	15,000	15,000	0	15,000	7/14	9/15
CONSTRUCTION FIELD SUPPORT	10,000	0	10,000	10,000	0	10,000	7/14	9/15
CONSTRUCTION	170,000	0	170,000	170,000	0	170,000	7/14	9/15
LEGAL	2,000	0	2,000	2,000	0	2,000	11/13	9/15
Contingency - 10.00% Subtotal	\$25,700	\$0	\$25,700	\$25,700	\$0	\$25,700		
Subtotal (Direct Costs)	\$282,700	\$0	\$282,700	\$282,700	\$0	\$282,700		
Estimated G/A - 170.00% of direct labor*	\$85,000	\$0	\$85,000	\$85,000	\$0	\$85,000		
Total	\$367,700	\$0	\$367,700	\$367,700	\$0	\$367,700		
Direct Labor	\$50,000	\$0	\$50,000	\$50,000	\$0	\$50,000		

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

EA Originator:

Kelly Lew _____ 5/2/14

Department Director:

Kevin L. Burt _____ 5/8/14

Finance:

[Signature] _____ 5/14/14

Board/General Manager:

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$376 additional documents, if any, which are hereby incorporate project is made under Treasury Regulation Section 1.150-2.

IRVINE RANCH WATER DISTRICT

Expenditure Authorization

Project Name: TUSTIN LEGACY ARMSTRONG ZONE A & WARNER ZONE A RW
 EPMS Project No: 30447 EA No: 1
 Oracle Project No: 4984
 Project Manager: CORTEZ, MALCOLM
 Project Engineer: LEW, KELLY
 Request Date: April 21, 2014

ID Split: Miscellaneous

Improvement District (ID) Allocations

ID No.	Allocation %	Source of Funds
213	100.0	BONDS YET TO BE SOLD**
Total	100.0%	

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$773,300
Total EA Requests:	\$773,300
Previously Approved Budget:	\$0
Budget Adjustment Requested this EA:	\$773,300
Updated Budget:	\$773,300
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	40,000	0	40,000	40,000	0	40,000	11/13	6/14
ENGINEERING DESIGN - OUTSIDE	50,000	0	50,000	50,000	0	50,000	11/13	6/14
DESIGN STAFF FIELD SUPPORT	10,000	0	10,000	10,000	0	10,000	11/13	6/14
ENGINEERING - CA&I IRWD	50,000	0	50,000	50,000	0	50,000	7/14	9/15
ENGINEERING - CA&I OUTSIDE	50,000	0	50,000	50,000	0	50,000	7/14	9/15
CONSTRUCTION FIELD SUPPORT	10,000	0	10,000	10,000	0	10,000	7/14	9/15
CONSTRUCTION	490,000	0	490,000	490,000	0	490,000	7/14	9/15
LEGAL	3,000	0	3,000	3,000	0	3,000	11/13	9/15
Contingency - 10.00% Subtotal	\$70,300	\$0	\$70,300	\$70,300	\$0	\$70,300		
Subtotal (Direct Costs)	\$773,300	\$0	\$773,300	\$773,300	\$0	\$773,300		
Estimated G/A - 170.00% of direct labor*	\$187,000	\$0	\$187,000	\$187,000	\$0	\$187,000		
Total	\$960,300	\$0	\$960,300	\$960,300	\$0	\$960,300		
Direct Labor	\$110,000	\$0	\$110,000	\$110,000	\$0	\$110,000		

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

EA Originator:

Kelly Lew 5/2/14

Department Director:

Kevin J. Burton 5/8/14

Finance:

[Signature] 5/14/14


Board/General Manager:

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$9 million additional documents, if any, which are hereby incorporated by reference into this project is made under Treasury Regulation Section 1.150-2. It is further described in the attached staff report and is the official intent to reimburse costs of the above-captioned project.

May 27, 2014

Prepared by: E. Blaska

Submitted by: B. Beeman / F. Sanchez
P. Weghorst

Approved by: Paul Cook 

CONSENT CALENDAR

CALSCAPE WATER USE EFFICIENCY OUTREACH PROGRAM CONSULTANT SELECTION

SUMMARY:

The California Appropriate Landscape (CALscape) outreach program is designed to assist IRWD customers with the reduction of outdoor water use and will be initially targeting single-family customers. Development and implementation of the CALscape program is one of the top priorities identified in the District's Water Conservation Plan that was adopted in December 2013. Staff recommends that the Board authorize the General Manager to execute a Professional Services Agreement with Crocker & Crocker for up to \$150,000 to develop and implement the first phase of a CALscape water use efficiency branding and outreach program.

BACKGROUND:

In December 2013, the Board approved an update to the Water Conservation Plan that included a program focus shift from indoor water conservation to reduction in outdoor water use. A 2013 study of single family water use estimated that 20% of all IRWD's residential consumption is related to over-irrigation, showing a significant potential for outdoor water savings. The new CALscape program is a long-term strategy designed to transform over-irrigated landscapes dominated by turf to California climate-appropriate landscapes. A reduction in over-irrigation from the successful implementation of the CALscape program will help reduce imported water demands. The CALscape program will feature targeted outreach to IRWD customers based on three primary concepts:

- Right plants: Choosing the right climate-appropriate landscapes;
- Right time: Watering the right amount at the right time; and
- Right equipment: Selecting and maintaining the right irrigation equipment.

Consultant Selection:

Staff issued a request for proposals (RFP) in February 2014 to 11 outreach/public relations firms to prepare and implement the first phase of the CALscape outreach effort. Proposals were received from four firms: Bolt Public Relations, Crocker & Crocker, FSB Core Strategies, and O'Rorke Inc.

Staff conducted a thorough analysis of the proposals and interviewed the top three respondents: Bolt Public Relations, Crocker & Crocker and O'Rorke Inc. Staff recommends that the firm of Crocker & Crocker be selected to complete the work. Key strengths of the Crocker & Crocker proposal are as follows:

- Crocker & Crocker is a demonstrated leader in the areas of technical approach, qualifications, and experience;

- During the interview phase Crocker & Crocker presented a well-thought-out outreach plan and demonstrated its extensive water agency and water use efficiency outreach experience;
- The proposed project team has in-depth and varied experience with not only other water agencies throughout California, but also with specific water use efficiency outreach programs;
- Crocker & Crocker's proposal demonstrated a thorough understanding of the project requirements and was responsive to all required elements in the RFP; and
- Costs were competitive when compared to the other proposals and are in line with staff expectations.

The consultant selection matrix is attached as Exhibit "A". Staff negotiated a revised scope of work and phase 1 budget with Crocker & Crocker's which is attached as Exhibit "B", and summarized below.

CALscape Outreach Program Elements:

The CALscape outreach program scope of work will result in a multi-pronged outreach program through the completion of four tasks defined as messaging, stakeholder and community outreach, outreach materials, and project management. The campaign will be conducted on a phased approach, and payments will be made when key milestones are reached throughout the campaign. Each of the four tasks are described below.

Messaging

This phase of the program will focus on planning and production of the final message concept and theme of the overall CALscape campaign. This will include reviewing existing research to help shape messages, discovery sessions with IRWD to determine messaging parameters and challenges, and developing and producing campaign assets needed for outreach to customers.

Stakeholder & Community Outreach

Crocker & Crocker will conduct a grassroots approach to create a database and foster connections, partnerships, and promotions with stakeholders, community groups, businesses, media, and local organizations.

Outreach Materials

Specific outreach materials will be designed around the new messaging and could potentially include such items as brochures, tip cards, promotional videos, event displays, speaking presentations, banners, and billing inserts.

Project Management

Project management of the CALscape campaign includes monthly program and communications evaluation and metrics, meeting agendas and reports, and conference meetings.

FISCAL IMPACTS:

Funding for this project is included in the FY 2013-14 Operating Budget from over-allocation revenues.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed and approved by the Water Resources Policy and Communications Committee on May 21, 2014.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH CROCKER & CROCKER IN THE AMOUNT OF \$150,000 FOR THE CALSCAPE OUTREACH PROGRAM.

LIST OF EXHIBITS:

Exhibit "A" – Consultant Selection Matrix
Exhibit "B" – Crocker & Crocker CALscape Proposal

EXHIBIT "A"

CALscape Outreach Plan Consultant Selection Matrix										
Item	Description	Weights	Bolt		Crocker		FSB		O'Rorke	
A	TECHNICAL APPROACH	60%								
1	Creative Approach	40%	2	1	4	3				
2	Implementation	30%	1	2	4	3				
3	Design Examples/References	15%	2	1	4	3				
4	Schedule & Task List	15%	1	2	4	3				
	Weighted Score (Technical Approach)		1.55	1.45	4.00	3.00				
B	QUALIFICATIONS AND EXPERIENCE	40%								
1	Project Manager	25%	2	1	4	3				
			Joanna Forster	Scot Crocker	Jerry Amante	Abbi Hertz				
2	Creative Team	25%	2	1	4	3				
3	Evaluation & Testing Team	25%	3	2	4	1				
4	Project Team Experience	20%	2	1	4	3				
5	Firm's Relevant Experience	5%	3	1	4	2				
	Weighted Score (Experience)		2.30	1.25	4.00	2.45				
	COMBINED WEIGHTED SCORE		1.85	1.37	4.00	2.78				
Ranking of Consultants										
C	SCOPE OF WORK BUDGET									
TASK			Task Hours	FEE	Task Hours	Fee	Task Hours	FEE	Task Hours	FEE
1	Messaging			\$42,500	65	\$10,070	40	\$4,600	83	\$12,000
2	Branding			\$165,000	120	\$17,960	60	\$6,900	194	\$30,000
3	Testing			\$15,000	108	\$15,570	60	\$6,900		\$49,000
4	Outreach & Evaluation		1,680	\$163,750	1,140	\$156,850	305	\$35,075	446	\$67,500
	SUB-TOTAL			\$386,250	1,433	\$200,450	465	\$53,475	722	\$158,500
15	Optional Items (Equipment Cost)			\$89,750		\$91,950				\$56,000
	TOTAL BUDGET			\$476,000		\$292,400		\$53,475		\$214,500
		Avg \$/hr		\$230		\$140		\$115		\$220
D	OTHER: MISC ITEMS									
	Conflict of Interest		No		No		No		No	
	Joint Venture		Yes		No		No		Yes	
	Scope of Work Exclusions		No		No		Yes		No	
	Exceptions taken to IRWD Std. Contract		No		No		No		No	
	Insurance (Professional & General Liability)		Yes		Yes		Yes		Yes	



Irvine Ranch Water District
April 28, 2014

Revised Scope – CALscape Program

Task One – Messaging

We recommend a new overarching theme and brand for CALscape that ties together the three key points: The Right Plants, The Right Schedule and The Right Equipment.

Activities 1: Planning

- Review existing research and identify unique insights to help shape messages.
- Facilitate discovery session with IRWD to determine parameters of messaging based on program goals, past successes, opportunities and challenges and testing options.

Activity 2: Concepting

- We will develop three message/theme concepts as an overarching approach to package the current key points. The Right Plants, The Right Schedule and The Right Equipment.

Activity 3: Final Concept

- With your input, we will develop a final theme from one of three concepts.

Activity 4: Production

- Depending on the final message concept/theme, we will produce the final design assets needed for branding and outreach. This will include any final illustrations, photography and/or designs.

Task Two – Branding

As part of our branding task, we will analyze and modify the current CALscape logo, develop the extension of the messaging and brand to other aspects of the outreach effort to ensure brand continuity and maximize program understanding and involvement.

Activity 1: Review/modify existing CALscape logo

We will analyze the existing CALscape logo and make recommendations for possible changes in design, typography and icon use to ensure it fits with the new branding.

Activity 2: Develop brand platform

As part of our branding assignment, we will develop a brand platform for the program. The brand platform provides an understanding of messages, personality and a rationale to connect audiences to behavior change. The brand platform will include:

- Message Map
- Brand Attributes
- Visual Personality (Look and feel)

Activity 3: Develop brand assets

To support the brand platform, we will create a library of creative elements that can be used in the communications and outreach campaign program. These will include:

Enhanced Icons: While icons exist for the key points of the program, we recommend enhancing these and creating greater visual appeal with 3D visualization.

- The Right Plants
- The Right Schedule
- The Right Equipment

Brand/Messaging Animations: We recommend animating the branding with a series of print graphics which can be used as a graphic accent in brochures and print collateral. We will also animate graphics for use in electronic media adding movement and voice. These animated segments will have a number of uses including:

- Open or closing of videos
- In PowerPoint and other presentations
- On IRWD's website
- In social media

Photography: There is currently a large collection of plant photos on IRWDCalScape.org. We will review the existing collection of photos for each key program point and prioritize photos for the outreach effort for:

- Plants
- Schedule (timers and controllers)
- Equipment

Task Three: Stakeholder and Community Outreach

This grassroots approach is based on connections, partnerships and promotions with stakeholders, community groups, businesses, media and organizations with a propensity to support IRWD's water conservation program by informing and engaging their constituencies, customers and audiences.



EXHIBIT "B"

Stakeholder groups have varying degrees of connectedness to our campaign but have equity in the outcome. IRWD already has relationships and programs established in the community and Crocker & Crocker will help leverage them with campaign messaging and materials.

Activity 1: Stakeholder and community outreach plan

We will develop an overall outreach plan that will identify opportunities to reach IRWD customers including opportunities with stakeholder groups and IRWD's current partners. The goal is to expand cooperative outreach efforts, promotional opportunities and other meaningful engagement. Key strategies and opportunities include:

- IRWD and non-IRWD events
- IRWD tours
- Speaking opportunities
- Print and electronic material content and distribution
- Contests and promotions
- Website evaluation and recommendations

Activity 2: Develop stakeholder / community group database

Construct a database of current and prospective stakeholders and create a communication protocol to engage stakeholders and their audiences.

- Select businesses
- Business organizations and chambers
- Youth organizations (4H, Boy Scouts, Girl Scouts)
- Garden clubs / master gardeners / horticulture groups
- Neighborhood associations
- Elected officials
- Nonprofit organizations
- Community leaders
- Water, home improvement and landscaping businesses
- California Landscape Contractors Association (local chapter)
- Multicultural groups and organizations
- Schools

Activity 3: Stakeholder / community group engagement

On an ongoing basis, Crocker & Crocker will work with stakeholders, community groups and partners, in conjunction with IRWD, to promote the CALscape program and gain measurable commitments to water conservation. We will:

- Provide content and materials
- Organize cooperative outreach activities
- Coordinate between IRWD and stakeholder groups
- Monitor outreach activities and develop effectiveness metrics



Activity 4: Media relations

On an ongoing basis, Crocker & Crocker will develop news, feature stories and editorial content for local media and other news outlets serving IRWD customers about CALscape and water conservation updates, tips and resources. This activity includes:

- Develop media calendar around key dates
- Identify key media, bloggers and information sources
- Construct relevant story ideas
- Write and submit releases and advisories (ongoing)
- Coordinate interviews and photo/video opportunities
- Monitor media and leverage opportunities

Task Four: Outreach Materials

Working in conjunction with IRWD, we will identify the outreach materials needed for the CALscape communication program. These materials will be used by IRWD staff in ongoing public education and engagement and provided to stakeholder, community groups and partners. These materials will be designed around the new messaging and brand. Specific outreach materials will be determined in the planning phase of this program. Some of the materials that will be considered include:

- CALscape brochure (electronic and print)
- Tip card (for community events)
- Event pledge board
- CALscape promotional video
- Event popup display
- CALscape speaking group presentation
- CALscape banner
- Interactive puzzle and quiz
- Bill insert

Task Five: Project Management

Crocker & Crocker has a defined approach to project management to ensure ongoing client communications and updates, accurate billing and complete reports. The following activities ensure cost and quality control:

- Monthly program and communications evaluation (metrics)
- Proactive meeting agendas and meeting reports
- Detailed invoices and invoice summaries
- Detailed out-of-scope estimates when needed
- In-person, telephone and video conference meetings



EXHIBIT "B"



Budget Development Worksheet

Irvine Ranch Water District
April 2014 to June 2015

2014 Rates:		\$185	\$160	\$130	\$105	\$65	\$130			
Tasks (enter in same name/order as on scope)	Total Hours	Principal	Art Director	Project Manager / Writer	Project Coordinator	Project Admin	Multimedia Director	Total Fees	Direct Costs	Project TOTAL
Messaging	68.00	24	15	20	6			\$ 10,070	\$ -	\$ 10,070
Branding	136.00	20	36	20	16		24	\$ 16,860	\$ 2,000	\$ 18,860
Communication and Outreach Plan	58.00	20	4	24	10			\$ 8,510	\$ -	\$ 8,510
Stakeholder / Community Group Database	50.00	10		30	10			\$ 6,800	\$ -	\$ 6,800
Stakeholder / Community Engagement	250.00	75	10	120	45			\$ 35,800	\$ 1,200	\$ 37,000
Media Relations	71.00	24		35	12			\$ 10,250	\$ 500	\$ 10,800
Outreach Materials	151.00	34	44	28	20		25	\$ 22,320	\$ 18,320	\$ 38,640
Project Management	81.00	36		25	20			\$ 12,010	\$ 6,500	\$ 18,510
								\$ -	\$ -	\$ -
SUBTOTAL	842.00	243.00	109.00	302.00	139.00	0.00	49.00	\$ 122,620	\$ 26,670	\$ 149,290
Optional Tasks										
								\$ -	\$ -	\$ -
								\$ -	\$ -	\$ -
								\$ -	\$ -	\$ -
								\$ -	\$ -	\$ -
SUBTOTAL	-	0.00	0.00	0.00	0.00	0.00	0.00	\$ -	\$ -	\$ -
GRAND TOTAL	842.00	243.00	109.00	302.00	139.00	0.00	49.00	\$ 122,620	\$ 26,670	\$ 149,290

EXHIBIT "B"





Irvine Ranch Water District
 Project Task and Timeline
 Revised: April 21, 2014

Project/Task	May, 2014	June, 2014	July, 2014	Aug, 2014	Sept, 2014	Oct, 2014	Nov, 2014	Dec, 2014	Jan, 2015	Feb, 2015	Mar, 2015	Apr, 2015	May, 2015	June, 2015
Messaging														
Planning	█													
Concepting	█	█												
Final Concept	█													
Production														
Branding														
Logo														
Brand Platform		█												
Brand Assets		█												
Stakeholder/Community Outreach														
Outreach Plan		█												
Stakeholder/Community Database			█	█	█	█	█	█	█	█	█	█	█	█
Stakeholder/Community Engagement			█	█	█	█	█	█	█	█	█	█	█	█
Media Relations			█	█	█	█	█	█	█	█	█	█	█	█
Outreach Materials														
Brochure			█											
Tip Card			█											
Pledge Board			█											
Video				█										
Popup Display			█											
Speaker Presentation				█										
Banner			█											
Puzzle/Quiz				█										
Bill Insert														
Project Management														
Monthly evaluation metrics					█	█	█	█	█	█	█	█	█	█
Agenda / Reports					█	█	█	█	█	█	█	█	█	█
Ongoing meeting agendas and reports					█	█	█	█	█	█	█	█	█	█
Meetings					█	█	█	█	█	█	█	█	█	█

May 27, 2014

Prepared by: A. McNulty

Submitted by: F. Sanchez/P. Weghorst 

Approved by: Paul Cook 

CONSENT CALENDAR

SOUTHERN CALIFORNIA GAS COMPANY PROGRAM PARTNERSHIP

SUMMARY:

IRWD has been invited to partner with the Southern California Gas Company (SoCalGas) in its Energy Saving Assistance Program for mutual residential customers. The SoCalGas program installs no-cost energy efficient devices that also provide water savings in customers' homes. IRWD currently provides supplemental funding of \$165 per device to the regional Metropolitan Water District of Southern California (MWD) rebate program for high-efficiency clothes washers. Staff proposes to add the equivalent level of funding directly to SoCalGas's program for the same qualified devices. SoCalGas's program targets low-income households that are otherwise not likely to participate through the MWD regional rebate program. Staff recommends that the Board authorize the General Manager to enter into the Inter-Utility Service and Nondisclosure agreement with SoCalGas (included as Exhibit "A") to provide \$165 per high efficiency clothes washer installed in an amount not to exceed \$100,000.

BACKGROUND:

SoCalGas operates an Energy Saving Assistance Program to provide the direct installation of high-efficiency clothes washers, low-flow showerheads and temperature-initiated shower flow restriction valves for qualified low-income residential customers. Since these devices save water heated using natural gas, the program achieves gas savings as well as water savings. IRWD was invited to partner with SoCalGas in this program by providing co-funding based on the water savings. IRWD currently provides co-funding of \$165 per high-efficiency clothes washer through the MWD administered regional rebate program. Staff recommends adding this same level of funding, \$165 per high efficiency clothes washer, to SoCalGas's Energy Savings Assistance Program.

IRWD has determined that high efficiency clothes washers are a very cost effective water efficiency measure within the District. Even with the rebates available through the MWD administered program, some low-income families are still not likely to purchase a more efficient washer. Partnering with SoCalGas in this direct install program will result in a significantly larger rebate being available to low-income customers and will achieve water savings from a customer group unlikely to participate in the existing MWD rebate program. SoCalGas will manage the installer contract, customer participation and provide monthly invoices to IRWD for installs within IRWD's service area.

FISCAL IMPACTS:

Funding of up to \$100,000 for this project is included in the approved FY 2014-15 Operating Budget.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed and approved by the Water Resources Policy and Communications Committee on May 21, 2014.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE THE INTER-UTILITY SERVICE AND NONDISCLOSURE AGREEMENT WITH SOUTHERN CALIFORNIA GAS COMPANY FOR PARTICIPATION AND CO-FUNDING OF UP TO \$100,000 IN THE ENERGY SAVINGS ASSISTANCE PROGRAM THAT WILL RESULT IN COST-EFFECTIVE WATER SAVINGS.

LIST OF EXHIBITS:

Exhibit "A" – Inter-Utility Service and Nondisclosure Agreement

EXHIBIT "A"

**Inter-Utility Service and Nondisclosure Agreement
by and between
Southern California Gas Company
and
IRVINE RANCH WATER DISTRICT**

This Inter-Utility Service and Nondisclosure Agreement (this "Agreement"), dated and effective as of _____ (the "Effective Date"), is entered into by and between Southern California Gas Company ("SoCalGas") and IRVINE RANCH WATER DISTRICT ("Other Party"). SoCalGas and Other Party are sometimes referred to in this Agreement individually as a "Party" and collectively as the "Parties."

Purpose and Recitals

SoCalGas offers no-cost energy saving measures ("SoCalGas Energy Saving Measures"), for its income qualifying residential customers pursuant to its Energy Savings Assistance Program ("ESA Program"). Other Party offers low or no-cost water-efficiency measures and incentives, including rebates, for its qualifying residential customers pursuant to its water conservation program ("Other Party Conservation Program") and, together with the ESA Program, the "Resource Savings Programs"). In accordance with and subject to the terms and conditions set forth in this Agreement, the Parties desire (i) to have SoCalGas make available to those persons that are customers of both Parties and that otherwise qualify for the ESA Program and the Other Party Conservation Program the opportunity to take advantage of the SoCalGas Energy Saving Measures, and (ii) to have Other Party compensate SoCalGas for its efforts with respect thereto such that SoCalGas obtains the benefit of the Other Party Conservation Program.

Now, therefore, the Parties, intending to be legally bound, agree as follows:

Scope

SoCalGas shall, either directly or through one or more SoCalGas' ESA Program contractors ("ESA Program Contractors") and subject to the terms and conditions of this Agreement, perform those services set forth on Schedule C attached hereto.

Authorized Representatives

SoCalGas designates the individual(s) named below as its representative(s) (the "SoCalGas Representative(s)") for all matters relating to the performance of this Agreement. The actions taken by the SoCalGas Representative(s) shall be deemed to be acts of SoCalGas. SoCalGas may at any time upon written notice to Other Party change the designated SoCalGas Representative(s).

SoCalGas Representative: Hugh Yao

Other Party designates the individual(s) named below as its representative(s) ("Other Party Representative(s)") and, together with the SoCalGas Representative(s), "Authorized Representatives") for all matters relating to the performance of this Agreement. The actions taken by the Other Party Representative(s) shall be deemed acts of Other Party. Other Party may at any time upon written notice to SoCalGas change the designated Other Party Representative(s).

Other Party Representative: Amy McNulty

Complete Agreement

This Agreement, including all Schedules and Exhibits attached hereto and which are incorporated by reference, constitutes the complete and entire Agreement between the Parties and supersedes any previous communications, representations or agreements, whether oral or written, with respect to the subject matter hereof. There are no additions to, or deletions from, or changes in, any of the provisions hereof, and no understandings, representations or agreements concerning any of the same, which are not expressed herein. **THE PARTIES HEREBY AGREE THAT NO TRADE USAGE, PRIOR COURSE OF DEALING OR COURSE OF PERFORMANCE UNDER THIS AGREEMENT SHALL BE A PART OF THIS AGREEMENT OR SHALL BE USED IN THE INTERPRETATION OR CONSTRUCTION OF THIS AGREEMENT.** The following Schedules and Exhibits are attached hereto and incorporated herein by this reference:

- Schedule A - Non Disclosure
- Schedule B - Additional Terms and Conditions
- Schedule C - Scope of Services and Reporting
- Schedule D - Compensation and Invoicing

IN WITNESS WHEREOF, the Parties have caused this Agreement to be duly executed by their respective authorized representatives as of the Effective Date.

Southern California Gas Company

Irvine Ranch Water District

By: _____

By: _____

Name: _____

Name: _____

Title: _____

Title: _____

*Approved
as to
form*



Schedule A
Non Disclosure

The term “Confidential Information” as used in this Agreement means (i) the names, addresses and all other information of those customers that are enrolled, or that desire to be or are in the process of being enrolled in the ESA Program (with respect to SoCalGas) and/or the Other Party Conservation Program (with respect to Other Party) and any other customers whose information is obtained by either party from the other in the performance of the Agreement or the ESA Program, (ii) any technical or commercial information of a Party, including, without limitation, patent applications, trade secrets, proprietary information, techniques, sketches, drawings, maps, reports, specifications, designs, records, data, software, programs, code, computer models, manuals and related documentation, software source documents, algorithms, information related to the current, future, and proposed products and services of a Party and any of its affiliated companies, research, experimental work, inventions, development, engineering, know-how, financial information, procurement requirements, purchasing or manufacturing information, business forecasts, sales or merchandising information, and marketing plans, and (iii) any of the foregoing information of any third party disclosing such information to a Party or an ESA Program Contractor in the course of such third party’s employment, engagement, business, or other relationship with such Party or ESA Program Contractor or their respective parent, subsidiary, or affiliated companies.

1. Each Party (“Receiving Party”) receiving Confidential Information from the other Party (“Disclosing Party”) agrees that it shall use the Confidential Information solely for the purpose of coordinating the enrollment of the Parties’ joint customers in their respective Resource Savings Program and not in any way detrimental to the Disclosing Party. The Receiving Party shall use the higher of the same degree of care it uses with respect to its own Confidential Information or a reasonable standard of care to prevent unauthorized use or disclosure of the Confidential Information. Except as otherwise provided in this Schedule, the Receiving Party shall keep confidential, and shall not disclose, and shall cause its Representatives to keep confidential and not disclose, Confidential Information to any third party. For purpose of this Agreement, “Representatives” means the directors, officers, employees, Authorized Representative, agents and/or advisors of the Receiving Party who have a direct need to access the Confidential Information of the Disclosing Party solely for the purpose described above and have agreed to abide by the terms of this Schedule. Each Party shall be responsible for any breach of this Agreement by its Representatives.
2. Consistent with Section 1 of this Schedule, the Receiving Party shall not, and shall cause its Representatives not to disclose to any third party any information that identifies a customer as being enrolled in the Disclosing Party’s Resource Savings Program. Without limiting the foregoing, and without limiting any other restriction outside of this Schedule, the Receiving Party shall not be restricted under this Schedule from disclosing to any third party information that identifies a customer as being enrolled in its own Resource Savings Program.
3. Notwithstanding the provisions of Section 1 of this Schedule, the Receiving Party and its Representatives may disclose any of the Confidential Information in the event, but only to the extent, that, based upon the written advice of counsel, it is required to do so by the disclosure requirements of any law, rule, or regulation or any order, decree, subpoena or ruling or other similar process of any court, governmental agency or governmental or regulatory authority. Prior to making or permitting any of its Representatives to make such disclosure, the Receiving Party shall provide the Disclosing Party with prompt written notice of any such requirement so that the Disclosing Party (with the Receiving Party’s assistance) may seek a protective order or other appropriate remedy. Notwithstanding the foregoing sentence, SoCalGas may, without providing notice thereof to Other Party, disclose Confidential Information to regulatory agencies with jurisdiction over SoCalGas and their staffs, including, but not limited to, the California Public Utilities Commission (“CPUC”) and

the Federal Energy Regulatory Commission; provided, that SoCalGas shall use commercially reasonable efforts to designate such Confidential Information as confidential in connection with any such disclosures. Irvine Ranch Water District is subject to the California Public Records Act, California Government Code Section 6250, *et seq.*, pursuant to which customer information is delineated as confidential and not subject to disclosure.

4. The Receiving Party shall not, and shall cause its Representatives not to, disclose to any third party (a) the fact that the Confidential Information has been made available to the Receiving Party or its Representatives, or (b) any information regarding the ongoing discussions between the Parties, including the fact that such discussions are occurring; provided, that the Receiving Party and its Representatives may disclose the information described in clauses (a) and (b) of this Section if such disclosure is required under any of the circumstances described in Section 3 of this Schedule, in which case the procedures specified therein with respect to such disclosure shall apply.
5. The Receiving Party shall disclose to the Disclosing Party when Confidential Information is intentionally or accidentally disclosed (other than as expressly permitted) and/or misused, and shall provide immediate notification to the Disclosing Party upon discovery of such incident.
6. At any time upon the request of the Disclosing Party, the Receiving Party shall promptly deliver (and return, if applicable) to the Disclosing Party or destroy (with such destruction to be certified in writing to the Disclosing Party):
 - a. All Confidential Information existing in written form or recorded in any other tangible medium (and all copies, abstracts and backups thereof, however stored) furnished to the Receiving Party or any of its Representatives;
 - b. All portions of all documents, instruments, data, reports, plans, specifications, abstracts and media (and all copies, abstracts and backups thereof, however stored) furnished to or prepared by the Receiving Party or any of its Representatives that contain Confidential Information; and
 - c. All other portions of all documents, instruments, data, reports, plans, specifications, abstracts and media (and all copies, abstracts and backups thereof, however stored) in the Receiving Party's or its Representatives' possession that contain or that are based on or derived from Confidential Information.
7. The Parties acknowledge that the Confidential Information is valuable and unique, and that damages would be an inadequate remedy for breach of this Agreement and the obligations of the Receiving Party and its Representatives are specifically enforceable. Accordingly, the Parties agree that in the event of a breach or threatened breach of this Schedule by the Receiving Party, the Disclosing Party shall be entitled to seek an injunction preventing such breach without the necessity of proving damages or posting any bond. Any such relief shall be in addition to, and not in lieu of any other legal or equitable remedy available to the Disclosing Party.
8. Except as otherwise set forth in this Agreement, each Party acknowledges and agrees that neither the Disclosing Party nor any of the Disclosing Party's Representatives is making any representation or warranty, express or implied, as to the accuracy or completeness of the Confidential Information disclosed under this Agreement, and neither the Disclosing Party nor any of the Disclosing Party's Representatives shall have any liability to the Receiving Party or any other individual or entity resulting from the use of the Confidential Information.

* * *

Schedule B
Additional Terms and Conditions

1. No Warranty

Except as otherwise expressly provided in this Agreement, SoCalGas does not warrant ESA Program Contractor's work or the ESA Program, and neither Party makes any express or implied warranty to the other pertaining to their respective Resource Savings Program, or portions of products thereof, in regard to accuracy, correctness, defensibility, completeness, or any other standard or measure of quality or adequacy or as to its use or intended use for any particular purpose.

2. Indemnification

SoCalGas shall indemnify, defend and hold harmless Other Party and its officers, managers, directors, agents, and employees ("Other Party Indemnitees") from and against all third-party suits, demands, claims and/or liability ("Claims") resulting from (a) injury to or death of persons, including but not limited to respective employees of SoCalGas and Other Party, (b) damage to property of SoCalGas or Other Party or other person or entity, or to natural resources, and/or (c) violation of any local, state, or federal law or regulation, including but not limited to environmental laws or regulations, or strict liability imposed by any law or regulation, in each case to the extent arising out of SoCalGas' negligent acts or omissions or willful misconduct in the course of SoCalGas' performance under this Agreement. SoCalGas shall further indemnify, defend and hold harmless the Other Party Indemnitees from and against any Claims made against the Other Party Indemnitees alleging any copyright, patent, or license infringement, or violation of any intellectual right, intellectual property, or any other proprietary rights, by any person or entity, arising out of, related to or in any way connected with Developments or Intellectual Property (as defined in Section 3 of this Schedule), if any, provided by SoCalGas to Other Party.

Other Party shall indemnify, defend and hold harmless SoCalGas and its officers, managers, directors, agents, and employees ("SoCalGas Indemnitees") from and against all Claims resulting from (x) injury to or death of persons, including but not limited to respective employees of SoCalGas and Other Party, (y) damage to property of SoCalGas or Other Party or other person or entity, or to natural resources, or (z) violation of any local, state, or federal law or regulation, including but not limited to environmental laws or regulations, or strict liability imposed by any law or regulation, in each case to the extent arising out of Other Party's negligent acts or omissions or willful misconduct in the course of Other Party's performance under this Agreement. Other Party shall further indemnify, defend and hold harmless the SoCalGas Indemnitees from and against any Claims made against the SoCalGas Indemnitees alleging any copyright, patent, or license infringement, or violation of any intellectual right, intellectual property, or any other proprietary rights, by any person or entity, arising out of, related to or in any way connected with Developments or Intellectual Property, if any, provided by Other Party to SoCalGas.

3. Ownership of Work

Subject to the provisions of the terms of SoCalGas' contract with the ESA Program Contractor(s), the Parties jointly own all Developments and all Intellectual Property Rights, on behalf of their respective customers, and the ESA Program Contractor(s) shall retain no ownership, interest, or title to such Developments or Intellectual Property Rights. For purposes of this Agreement, the following terms shall have following meanings: (a) "Developments" means any and all data, reports, information, manuals, computer programs, works of authorship, designs or improvements of equipment, tools or processes, or other written, recorded, photographic or visual materials, or other deliverables, produced under this Agreement; and (b) "Intellectual Property Rights" means any and all following tangible and intangible rights (now or hereafter known) produced under this Agreement: (i) rights associated with works of

7. Use of Name or Endorsements

No Party shall use the name, logo, trademark, tradename or service mark of the other Party on or with regard to any product or service directly or indirectly related to such other Party's Resource Savings Program or this Agreement without the prior written consent of the other Party. By entering into this Agreement, no Party directly or indirectly endorses any product or service provided, or to be provided, by any Party, its successors or assignees.

8. Press Releases and Corporate Identification

Neither Party shall (a) make any press release, advertisement, informal notification to the media, or other announcement of any kind in regard to this Agreement or the terms and conditions of this Agreement without prior approval of the other Party, or (b) make public use of any such other Party's Identification in any circumstances related to this Agreement or otherwise. For purposes of this Section, "Identification" means any corporate name, trade name, trademark, service mark, insignia, symbol, logo or any other product, service or organization designation, or any specification or drawing owned by such other Party or its affiliates or any representation thereof.

9. Survival

Notwithstanding completion or termination of this Agreement, the Parties shall continue to be bound by the provisions of this Agreement that, by their nature, survive such completion or termination, which provisions shall include, but not be limited to, Schedule A and Sections 1, 2, 3, 7, 8 and 11 of this Schedule; provided, that with respect to each Party's indemnification obligations set forth in Section 2 of this Schedule, such obligations shall survive for a period of one (1) year following the termination or expiration of this Agreement, or until the expiration of applicable statutes of limitation, whichever occurs later.

10. Waiver

None of the provisions of this Agreement shall be considered waived by any Party unless such waiver is specifically stated in writing. The waiver by one Party of the performance of any covenant, condition or promise shall not invalidate this Agreement, nor shall it be considered a waiver by that Party of any other covenant, condition or promise. The waiver by any Party of the time for performing any act shall not constitute a waiver of the time for performing any other act or identical act required to be performed at a later time. The exercise of any remedy provided in this Agreement shall not be a waiver of any consistent remedy provided by law, and the provision in this Agreement for any remedy shall not exclude other consistent remedies unless they are expressly excluded.

11. Governing Law, Venue

This Agreement shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California. Any action brought to enforce or interpret this Agreement shall be filed in Los Angeles County, California.

12. Headings

Titles and headings of the Sections and Subsections of this Agreement are for the convenience of reference only and do not form a part of this Agreement and shall in no way affect the interpretation thereof.

13. Severability

If any provision of this Agreement or the application thereof to any person, entity or circumstance shall, at any time or to any extent, be invalid or unenforceable, the remainder of this Agreement shall not be affected thereby, and each such provision shall be valid and enforceable to the fullest extent permitted by law.

14. Amendments

If any Party desires a modification of this Agreement, the Parties shall, upon reasonable notice of the proposed modification by the Party desiring the change, confer in good faith to determine the desirability of such modification. Such modification shall not be effective until a written amendment is signed by all the Parties hereto by their representatives duly authorized to execute such amendment.

15. Assignment

Except as otherwise permitted under this Agreement, neither this Agreement nor any rights or obligations of any Party shall be assigned or otherwise transferred by any Party without the prior written consent of the other Party, which shall not be unreasonably withheld or delayed.

16. Independent Parties

The relationship of the Parties is that of independent parties and not as agents of each other or as joint venturers or partners. The Parties shall maintain sole and exclusive control over their respective personnel and operations, including without limitation their respective Resource Savings Programs.

17. Counterparts

This Agreement may be executed in any number of identical counterparts, each of which shall be deemed to be an original, and all of which together shall be deemed to be one and the same instrument when each Party has signed one such counterpart.

18. Compliance with Laws

The Parties, in undertaking their obligations hereunder, or any of them, shall comply with all laws and governmental rules and regulations, state, federal, or local, or any of them applicable to their respective obligations under this Agreement.

20. Acts and Documents

The Parties agree diligently to do such acts and to prepare and execute all documentation that may be reasonably necessary to perform and carry out this Agreement.

* * *

Schedule C
Scope of Services and Reporting

Scope of Services

1. SoCalGas shall, either directly or through the ESA Program Contractor(s), and in accordance with the terms of this Agreement and the ESA Program, perform those services set forth in Exhibit A of this Schedule (“Services”) at the quality level described in the latest edition of the applicable code compliance standard that takes precedent for the nature of the applicable service being provided.
2. Exhibit A to this Schedule C sets forth the specific Services that SoCalGas or the ESA Program Contractor(s) shall perform under this Agreement and Other Party’s obligations with respect thereto, including but not limited to the payment that Other Party shall remit to SoCalGas or the ESA Program Contractor, as applicable, in consideration thereof. Exhibit A may be revised by an addendum proposed by a Party and accepted by the Parties; provided, that any addendum to Exhibit A must be requested by written notice from the requesting Party and, if accepted by the other Party, shall fully replace all prior versions of Exhibit A.
3. In the event Other Party requests documented eligibility verification beyond the ESA Program requirements, Other Party shall reimburse SoCalGas for the additional documented eligibility verifications.
4. All costs incurred by a Party in satisfying its obligations under this Agreement shall be considered “party-specific” costs, and shall be the sole responsibility of the incurring Party, unless otherwise agreed to by prior written consent of the other Party.

Reporting

1. SoCalGas or the ESA Program Contractors shall collect measure and installation counts resulting from the Service being provided along with statistical information relating thereto, including, without limitation, customer demographic information, customer name and address, and associated costs. Other Party shall calculate any water savings based on a per unit installation factor.
2. SoCalGas or the ESA Program Contractors shall provide invoicing information regarding the number of units completed each month within the overlapping service territory of Other Party and SoCalGas.
3. Other Party shall have the right to claim water savings resulting from the Services to various entities requesting such information, including, without limitation, California Energy Commission and California Urban Water Conservation Council. SoCalGas shall have the right to claim natural gas savings resulting from the Services to various entities requesting such information, including, without limitation, the CPUC.

**Exhibit A to Schedule C
Services and Payment**

- 1.** SoCalGas shall, either directly or through the ESA Program Contractor(s), deliver and install high efficiency clothes washers ("Washers") at the residences of those persons that are residential customers of both Parties and that otherwise qualify for the Resource Savings Programs. SoCalGas shall then deliver an invoice to Other Party, which invoice shall bill Other Party \$165 for each Washer installed at such customer's residence. Other Party shall pay such invoice in the timeframe set forth therein and otherwise in accordance therewith. Notwithstanding anything to the contrary set forth in this Section, SoCalGas shall invoice up to 606 Washers installed per calendar year, and Other Party shall not be obligated to pay more than \$100,000 per calendar year for such installation of such Washers.
- 2.** No later than sixty (60) days following the Effective Date, SoCalGas shall invoice Other Party in an amount equal to \$165 per Washer for each Washer installed by SoCalGas or the ESA Program Contractor(s) on or after the effective agreement date up to the Effective Date at the residences of those customers of both Parties that qualify for the Resource Savings Program. Other Party shall pay such invoice in the timeframe set forth therein and otherwise in accordance therewith.

* * *

Schedule D
Invoicing and Compensation

1. SCG/ESAP Contractor shall submit monthly invoices to Other Party by no later than the 21st calendar day of each month following the Effective Date. Unless otherwise set forth in this Exhibit A to Schedule C, SoCalGas and/or the ESA Program Contractor, as applicable, shall use every reasonable effort to invoice Other Party for each Service performed under or pursuant to this Agreement by no later than forty-five (45) days after the date the Services have been fully performed (including, without limitation, any installation, inspections, and/or repairs). As applicable, SoCalGas shall have the discretion to delay certain individual customer invoicing to make sure corrections to the ESA Program Contractor's invoice have been completed and charge backs to the ESA Program Contractors are completed following SoCalGas and/or Other Party inspections, if any.
2. The specific amounts due by Other Party to SoCalGas for the applicable Service is set forth in Exhibit A to Schedule C. Other Party shall remit to SoCalGas, at the address and within the timeframe set forth in, and otherwise in accordance with, the applicable invoice, the amounts set forth in such invoice. In the event that Other Party disputes the payment of any amount due, the Parties shall work together in good faith to resolve such dispute promptly by negotiations between the Parties' Authorized Representatives, but without limiting either Party's right to pursue litigation.
3. SoCalGas and ESA Program Contractors shall send Other Party invoices to the following address:

Irvine Ranch Water District
Attn: Amy McNulty
15600 Sand Canyon Avenue
Irvine, CA 92618

* * *

May 27, 2014

Prepared By: A. McNulty

Submitted by: F. Sanchez/P. Weghorst

Approved by: Paul Cook

CONSENT CALENDAR

SECOND AMENDMENT TO AGREEMENT FOR PARTICIPATION AND FUNDING IN SPECIFIED MWDOC REBATE PROGRAMS

SUMMARY:

Irvine Ranch Water District's water use efficiency program includes a "Tactical Incentives" element to encourage customers to install water conservation devices. Incentive payments are based on the water and wastewater system avoided costs for each device and are cost-effective for IRWD. Staff has reviewed the funding levels and water savings and recommends that the Board authorize the General Manager to execute an amendment to the existing agreement with the Municipal Water District of Orange County (MWDOC) to provide incentives at the levels specified per device, for a total funding amount of \$500,000 in FY 2014-15.

BACKGROUND:

Tactical Incentives are one of the key elements of IRWD's Water Use Efficiency Program. The Tactical Incentives are cost-effective financial incentives provided by IRWD to supplement existing regional rebate programs administered by either Metropolitan Water District of Southern California and/or MWDOC. The incentives are based on IRWD's calculated avoided costs resulting from the installation of the various conservation devices. An amendment to the existing agreement with MWDOC has been prepared to provide incentives for specified devices. This amendment is attached as Exhibit "A".

Staff has reviewed the water savings and funding levels for the various devices and recommends the incentive levels shown in Table 1. Based on customer participation, staff is proposing a total of \$500,000 in total incentive funding of which \$400,000 would be allocated to residential programs and \$100,000 to commercial programs. There is flexibility within the agreement to transfer funding between the residential and commercial programs as necessary.

Table 1: Proposed Funding Levels FY 2014-2015

Program	Maximum Funding	Devices	IRWD Rebate Funding Level Per Device
<u>SoCal WaterSmart</u> Residential Program	\$400,000	High Efficiency Clothes Washer (HECW)	\$165
		High Efficiency Toilet (HET)	\$50

Program	Maximum Funding	Devices	IRWD Rebate Funding Level Per Device
<u>SoCal WaterSmart</u> Commercial Program	\$100,000	Commercial High Efficiency Toilet	\$50
		Multi-Family High Efficiency Toilet	\$50
		Zero Water/Ultra Low Water Urinals	\$100
		Connectionless Food Steamer	\$485 Per Compartment
		Commercial Ice Making Machine (Tier III)	\$250
		Hotel Connectionless Food Steamer	\$485 Per Compartment
		Hotel Commercial Ice Making Machine (Tier III)	\$250
Total Funding for All Programs	\$500,000		

FISCAL IMPACTS:

Funding from over-allocation revenues for tactical incentives in the amount of \$500,000 is included in the adopted FY 2014-15 Operating Budget.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed and approved by the Water Resources Policy and Communications Committee on May 21, 2014.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE THE SECOND AMENDMENT TO THE AGREEMENT FOR PARTICIPATION AND FUNDING BY IRWD IN SPECIFIED MUNICIPAL WATER DISTRICT OF ORANGE COUNTY REBATE PROGRAMS, SUBJECT TO NON-SUBSTANTIVE CHANGES, FOR SPECIFIED REBATE PROGRAMS WITH \$500,000 IN FUNDING FOR FY 2014-15.

Consent Calendar: Second Amendment to Agreement for Participation and Funding in Specified
MWDOC Rebate Programs
May 27, 2014
Page 3

LIST OF EXHIBITS:

Exhibit "A" – Second Amendment to Agreement for Participation and Funding By Irvine Ranch
Water District in Specified Municipal Water District of Orange County Rebate
Programs

EXHIBIT "A"

Second Amendment to Agreement for Participation and Funding By Irvine Ranch Water District in Specified Municipal Water District of Orange County Rebate Programs

This Second Amendment ("Amendment") to the existing "Agreement for Participation and Funding by Irvine Ranch Water District in Specified Municipal Water District of Orange County Rebate Programs" ("Agreement") is entered into by and between the Municipal Water District of Orange County ("MWDOC") and Irvine Ranch Water District ("IRWD"). The Agreement provides for participation in and co-funding by IRWD for residential and commercial water use efficiency devices through Metropolitan Water District of Southern California's ("Metropolitan") SoCal WaterSmart ("WaterSmart") residential and commercial rebate programs in IRWD's service area.

This Amendment modifies the Agreement, which includes without limitation all previous amendments and attachments. Except as stated below, this Amendment is effective July 1, 2014, and the Agreement, as amended hereby, remains in full force and effect.

1. Section 3 to the Agreement, entitled "IRWD Participation and Co-Funding," is deleted in its entirety and replaced with the following:

"3. IRWD Participation and Co-Funding. In addition to the existing funding for rebates provided directly through Metropolitan's WaterSmart programs, IRWD will provide additional funding or "co-funding" to the Programs in the "Maximum Funding" amounts identified on Exhibit A to this Agreement, entitled "Proposed Rebate Funding Levels FY 2014-2015." IRWD shall have the ability to transfer funding between programs as it deems necessary by sending written notice to MWDOC. Such a notice shall specify changes to the "Maximum Funding" for each Program affected by the transfer and shall not result in a net increase in total funding. For example, if the WaterSmart residential rebate program is nearing the "Maximum Funding" amount, while the WaterSmart commercial rebate program has funding remaining, IRWD may notify MWDOC in writing to transfer funding between the Programs, thereby increasing the Maximum Funding for one Program and decreasing it for the other. IRWD may also, upon notice by MWDOC of depleted funds prior to Program Expiration, as defined herein, make additional funding available, without formal amendment of this Agreement, up to an additional \$10,000. This can be accomplished by letter from an authorized IRWD representative to MWDOC's General Manager. If the Maximum Funding for a particular Program is exhausted prior to the Program Expiration, as defined in Paragraph 8 to the Agreement, and IRWD does not elect to add additional funding or transfer available funding from another Program, MWDOC will direct the Rebate Contractor to discontinue offering the additional rebate funding for that Program in IRWD's service area."

Exhibit A: Proposed Rebate Funding Levels FY 2014-2015

Program	Devices	Metropolitan Rebate Level Per Device	IRWD Rebate Funding Level Per Device	IRWD Maximum Funding*
SoCal Water\$mart Residential Program	High Efficiency Clothes Washer (HECW)	\$85 (\$110 with MET grant, when available)	\$165	\$400,000
	High Efficiency Toilet (HET) (Single Family)	\$50	\$50	
Program	Devices	Metropolitan Rebate Level Per Device	IRWD Rebate Funding Level Per Device	IRWD Maximum Funding*
SoCal Water\$mart Commercial Program	Multi-Family High Efficiency Toilet	\$50	\$50	\$100,000
	Commercial High Efficiency Toilet (Tank Type and Flushometer)	\$100	\$100	
	Zero Water/Ultra Low Water Urinals	\$200	\$100	
	Connectionless Food Steamer	\$485	\$485 Per Compartment	
	Ice Making Machine	\$1,000	\$250	
	Hotel Connectionless Food Steamer	\$485	\$485 Per Compartment	
	Hotel Ice Making Machine	\$1,000	\$250	
	Total Funding for All Programs			

* Where indicated, "Maximum Funding" amounts for certain programs are subject to the provisions of Paragraph 3 of the Agreement and will be adjusted upon notification by IRWD to transfer funding between programs.

///

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Dated: _____

MUNICIPAL WATER DISTRICT OF
ORANGE COUNTY

By: _____

Robert J. Hunter
General Manager

Dated: _____

IRVINE RANCH WATER DISTRICT

By: _____

Paul Cook
General Manager


Dated: _____

Approved as to Form:

Bowie, Arneson, Wiles & Giannone



Joan C. Arneson
Legal Counsel

OS
May 27, 2014
Prepared by: S. Malloy
Submitted by: K. Burton ^{KRB}
Approved by: Paul Cook 

CONSENT CALENDAR

MICHELSON WATER RECYCLING PLANT BIOSOLIDS AND ENERGY RECOVERY FACILITIES VARIANCE

SUMMARY:

Black & Veatch designed the state-of-the-art odor control facilities for the Michelson Water Recycling Plant (MWRP) Biosolids and Energy Recovery Facilities (Biosolids). Because of Black & Veatch's comprehensive knowledge of these odor control facilities, Black & Veatch is the most qualified engineer to prepare the Odor Control Maintenance and Monitoring Plan (OCMMP) for the entire MWRP site. Staff recommends that the Board authorize the General Manager to execute Variance No. 2 in the amount of \$112,665 with Black and Veatch to prepare the OCMMP for the MWRP Biosolids and Energy Recovery Facilities project.

BACKGROUND:

Construction of the Biosolids project was awarded to Filanc Balfour Beatty in March 2013 in the amount of \$163,513,307. The Biosolids project will provide biosolids digestion, dewatering, energy production, and on-site sludge drying. The project includes excavation for subsurface structures; installation of 3,009 foundation piles; three egg-shaped digesters; a state-of-the-art odor control system; a biogas conditioning system and power generation using micro-turbines; a fats, oil and grease (FOG) receiving station; and new utility services. These facilities are being constructed on the undeveloped land north of IRWD's existing Operations Center, maintenance shops, water quality laboratory, and warehouse.

The supplemental environmental impact report (SEIR), prepared by the District's consultant (ESA), stipulated that IRWD would prepare an OCMMP for the project. The Plan will define a schedule for regular preventative maintenance of the odor control system equipment and back-up systems, a schedule for odor monitoring along the IRWD property boundary, and a protocol for handling and resolving odor complaints. The purpose of the OCMMP is to provide an early warning of potential odor concerns to which operations staff can then respond.

Variance No. 2 with Black & Veatch:

Black & Veatch designed the state-of-the-art odor control facilities for the Biosolids project. Since Black & Veatch has the most comprehensive knowledge of these facilities, staff requested Black & Veatch submit a proposal to prepare the OCMMP. The OCMMP will be for the MWRP biosolids and energy recovery facilities along with the liquid treatment facilities.

Black & Veatch's proposal includes the following tasks:

- Prepare project background, which includes identifying sources of odors and how to control them;
- Prepare maintenance program, which will outline the maintenance of each treatment facility and the regular schedule of maintenance;
- Prepare odor monitoring program, which will identify which monitoring technology to use, installation locations, and methods of implementation;
- Prepare draft and final OCMMP;
- Prepare and conduct workshops for each of the tasks mentioned above; and
- Prepare and submit a summary presentation of the final OCMMP that can be used for IRWD's website and as a presentation at a public outreach session.

Black & Veatch's proposal, attached as Exhibit "A", provides details of the different elements of the OCMMP. Because ESA prepared the SEIR for the project and attended many public meetings where concerns were expressed regarding odor control, Black & Veatch will retain ESA as a subcontractor to assist in preparing the OCMMP. Black & Veatch's Variance No. 2, in the amount of \$112,665, is attached as Exhibit "B". It is estimated that these tasks will take four months to complete.

FISCAL IMPACTS:

The MWRP Biosolids and Energy Recovery Facilities Project 21146 (4286) is included in the FY 2013-14 Capital Budget. The existing budget and Expenditure Authorization are sufficient to fund Variance No. 2.

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 meeting on December 6, 2012.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on May 20, 2014.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE VARIANCE NO. 2 IN THE AMOUNT OF \$112,665 WITH BLACK AND VEATCH TO PREPARE THE ODOR CONTROL MAINTENANCE AND MONITORING PLAN FOR THE MICHELSON WATER RECYCLING PLANT BIOSOLIDS AND ENERGY RECOVERY FACILITIES, PROJECT 21146 (4286).

Consent Calendar: Michelson Water Recycling Plant Biosolids and Energy Recovery Facilities
Variance No. 2
May 27, 2014
Page 3

LIST OF EXHIBITS:

Exhibit "A" – OCMMP Proposal from Black & Veatch
Exhibit "B" – Variance No. 2 with Black & Veatch

**IRVINE RANCH WATER DISTRICT
MWRP BIOSOLIDS AND ENERGY RECOVERY FACILITIES
ODOR CONTROL MAINTENANCE AND MONITORING PROGRAM (OCMMP)**

April 14, 2014

SCOPE OF WORK

The objective of this project is to produce an Odor Control Maintenance and Monitoring Program (OCMMP) document for the Michelson Water Recycling Plant (MWRP). IRWD staff will use and implement the OCMMP at the MWRP and respond to any odor complaint. It is intended that the OCMMP will be a public document. Although the OCMMP will cover overall strategy and procedures for odor control, it will supplement but is not intended to replace the more detailed O&M manuals for specific pieces of equipment or systems. This scope of work is based on the outline for the OCMMP, dated December 17, 2013, which is attached to this scope of work. The tasks in this scope refer to specific sections of that outline.

TASK 1: PREPARE INTRODUCTION AND PROJECT BACKGROUND SECTIONS
(OCMMP Outline Items I and II)

Prepare brief background descriptions of the Liquid Treatment and Biosolids & Energy Facilities which will explain the basic operation of the treatment plant and identify major sources of odors. Include simplified treatment process diagrams for illustration. Include a plant map showing the locations of the treatment processes and foul air collection points/treatment. It is assumed that at Notice to Proceed, IRWD will provide process flow diagrams and other relevant design information for the existing liquid treatment portion of the plant.

Provide background information on odorous compounds and distinguish odors produced during normal sewage treatment plant operation from those produced during maintenance and/or emergency situations.

Describe criteria used for treating or controlling odors, such as permit or regulatory requirements or basic design criteria.

Prepare maps indicating site boundaries, typical wind direction, (prevailing and Santa Ana wind conditions) temperature ranges, identification and location of receptors (schools, etc), and other potential neighboring odor sources.

Briefly describe odor collection and treatment systems how they function and the chemicals that are used. Include odor control measures in the existing liquid treatment portion of the MRWP as well as those measures in the design of the Biosolids Facilities (wet scrubbers, RTO). Include information on which areas or processes are included in odor treatment by various wet scrubbers and RTO, respectively. Discuss odor control in potential odor sources not connected to the odor treatment equipment (FOG receiving area, etc.).

Discuss wet scrubber control options and the advantages and disadvantages of measuring pH/ORP in the wet scrubber sump versus measuring them in the stack.

Discuss the potential for uncontrolled releases of digester gas and how to minimize/treat.

Workshop #1:

Meet with IRWD and ESA to review preliminary maps of site boundaries, climate information, receptor locations, and identification of other odor sources. Present and discuss an early draft list of monitoring equipment, monitoring locations, and monitoring frequencies.

Deliverables:

1. Workshop minutes.

TASK 2: PREPARE OPERATION AND MAINTENANCE PROGRAM SECTION
(OCMMP Outline Item III)

The descriptions prepared in this task will be compiled into a single document in Task 4.

Describe operating and maintenance strategies to minimize odor production from the liquid treatment portion of the MRWP (e.g., daily wash down of equalization basins). Provide a similar discussion for the biosolids facilities.

Describe normal operation of the wet scrubbers and RTO: how to start/stop, what to monitor during equipment operation, and performance criteria. Reference will be made to the equipment O&M manuals that cover detailed operational instructions. Discuss treatment redundancy and back-up power and what do to in the event of an equipment breakdown. Discuss how to continue to control and/or treat odors when an individual scrubber is removed from operation for maintenance/repairs. Discuss basic odor control equipment cleaning, maintenance, and record keeping responsibilities.

Describe the odor control chemical systems at the plant (storage, feed, and usage).

Identify basic plant record keeping for operating information, preventive maintenance activities, and unscheduled maintenance activities that would be relevant to identifying sources of odors.

Workshop #2:

Schedule an information gathering meeting with key IRWD Operations staff to discuss established procedures they use to minimize odors in the existing part of the plant. Also, discuss proposed procedures for minimizing odors at the Biosolids Facilities.

Deliverables:

1. Workshop minutes.

TASK 3: ODOR MONITORING PROGRAM
(OCMMP Outline Item IV)

The descriptions prepared in this task will be compiled into a single document in Task 4.

Identify and recommend odor monitoring equipment (both stationary and portable). Identify and recommend odor monitoring locations and monitoring frequencies, including those suitable for automated odor monitoring equipment. Prepare a monitoring program, consistent with SCAQMD permit requirements, for three possible alternatives: (1) IRWD performs the monitoring or (2) a contractor performs the monitoring, and 3) a blend of the two. Prepare a response plan to address detected odor events, a plan for odor monitoring when odor scrubbers are out of service for maintenance, and a plan to record or document routine monitoring, even when there are no odor complaints. Prepare protocol for modifying monitoring locations and monitoring frequency in the future.

Prepare a protocol for validating and characterizing an odor complaint, identifying who within IRWD (e.g., Compliance Manager) will be notified and when. Identify agencies or individuals outside of IRWD who should be notified, and under which circumstances. Define how information is disseminated to IRWD management, regulatory agencies, and the public.

Prepare a plan for collecting baseline odor data. The plan will identify sampling and analyses to be performed by IRWD staff and sampling and analyses that might be performed by contractors. Describe the type of data to collect the locations, and the number, and timing of samples.

Prepare a plan for educating the public about the Odor Control Plan at public meetings scheduled for construction progress updates. Identify which groups might need to be specially invited to attend.

Workshop #3:

Schedule a meeting with IRWD Public Affairs staff and ESA to learn about IRWD's established protocols and preferences for notifications. Discuss monitoring equipment, monitoring locations, and monitoring frequencies. Present proposed protocols to IRWD Public Affairs staff.

Deliverables:

1. Workshop minutes.

TASK 4: PREPARE DRAFT AND FINAL OCMMP

Prepare a draft OCMMP for review by IRWD. Hold a review meeting with IRWD and respond to comments. Based on the resolution of IRWD comments, prepare the final OCMMP.

Meetings/Workshops:

Schedule a review meeting with IRWD to receive comments and answer questions on the draft OCMMP.

Deliverables:

1. Submit five (5) hard copies of the draft OCMMP and one pdf electronic version.
2. Submit ten (10) hard copies of the final OCMMP and one pdf electronic version.
3. Submit a summary presentation of the final OCMMP that can be used for IRWD's website and as a presentation at a public outreach session.

IRVINE RANCH WATER DISTRICT
MWRP BIOSOLIDS AND ENERGY RECOVERY FACILITIES
ODOR CONTROL MAINTENANCE AND MONITORING PROGRAM (OCMMP)
OUTLINE

I. OBJECTIVE

(From the FSEIR): The Odor Control Maintenance and Monitoring Plan defines a schedule for regular preventative maintenance of the odor control system equipment and back-up systems, a schedule for odor monitoring along the IRWD property boundary, and a protocol for handling and resolving odor complaints. The purpose of the Plan is to provide an early warning system for system operations.

II. PROJECT BACKGROUND (Why are we controlling odors? What do we have to do to accomplish this?)

A. MWRP Treatment Process Overview

1. Liquid Treatment

- a. Headworks – removes screenings, grit, and loads them into bins
- b. Primary Sedimentation – removes primary sludge & scum
- c. Flow Equalization – two large open basins used for daily storage
- d. Activated Sludge/Sedimentation/High Rate Clarifier/Filtration/Chlorination – conventional treatment producing Title 22 recycled water
- e. Membrane Bioreactor/UV Disinfection

2. Biosolids & Energy Recovery Facilities

- a. Sludge screening/thickening
- b. Digestion – acid phase anaerobic digestion
- c. Dewatering – centrifuge dewatering producing Class B cake
- d. Cake receiving
- e. Drying – rotary drum dryer to produce Class A pellets
- f. Cake load-out/pellet load-out
- g. Biogas conditioning/power generation using microturbines

B. Odorous Compounds Background

1. Discussion of nuisance odors (not health hazards) vs. odors that may indicate health impacts
2. General description of odor causing compounds (sulfides, ammonia, etc.).
3. Types of odors and where generated in a WWTP during normal operation
4. Sources during WWTP routine maintenance or emergency situations

C. Criteria for Odor Control

1. RWQCB – NPDES permit addresses nuisance odor complaints
2. SCAQMD requirements for odor control
3. NFPA 820 – requirements for air exchanges per hour
4. EIR requirements for odor control

D. Other Odor Control Background Information

1. MWRP Environmental setting – discuss IRWD’s boundary, MWRP boundary & the biosolids site boundary
2. Seasonal wind direction
3. Ambient temperature swings & impact on odors
4. Location of odor receptors – condos & apartments on Carlson, office buildings & apartments on Michelson, preschool on Michelson at San Diego Creek, golf course & homes across Harvard, San Joaquin Marsh campus & trails
5. Other potential neighboring odor sources (San Diego Creek, San Joaquin Marsh ponds, San Joaquin golf course, North Interceptor siphon inlet at Michelson and San Diego Creek near preschool)

E. Description of the MWRP Odor Collection Systems and Odor Treatment Processes

1. General Odor Control Strategies at MWRP
 - a. Collections systems odor control – chemicals added at lift stations
 - b. Chemical treatment of process water at MWRP to prevent odors
 - c. Enclose odor causing processes in structures
 - d. Collect and treat off gases
 - e. Meet codes and environmental commitments

2. Wet Scrubbers & Odor Treatment Chemicals
 - a. Theory of wet scrubbing
 - b. Treatment chemicals – discuss NaOH, NaOCl, H₂SO₄
3. Locations where Odors are Expected to be Produced
 - a. Liquid treatment locations – discuss headworks, primary sedimentation, and Primary Effluent Pump Station
 - b. Biosolids treatment locations – discuss digesters, wetwells, equipment, load-out room
4. Odor Collection Systems and Wet Scrubbers
 - a. Liquid Treatment – discuss what areas are plumbed to the two low-profile 2-stage systems
 - b. Solids Treatment Biosolids – discuss what areas are plumbed to the one 3-stage system
 - c. Discuss operational items such as if we should measure pH & ORP in the discharge stack rather than in the wet scrubber sump (AES does this using Pacific Rim Technologies equipment)
 - d. Discuss possibility of uncontrolled digester gas releases (burping) and strategies to minimize and mitigate
5. Dryer
 - a. Operational description – discuss air recirculation, portion of gas vented to gas treatment
 - b. Identify H₂SO₄ addition after Venturi scrubber to remove NH₃ so it doesn't get oxidized and create NOX
 - c. RTO system
6. Other Biosolids Related Facilities Not Connected to Odor Collection Systems
 - a. FOG receiving station
 - b. Off gas from FOG holding tanks could emit odors – discuss how we are controlling
 - c. Flare

III. MAINTENANCE PROGRAM

A. Odor Treatment System Operations Procedures

1. Maintenance of the MWRP equipment and process to prevent odors
 - a. Liquid treatment area – discuss items like daily wash down of the flow equalization basins
 - b. Biosolids treatment area – discuss items like odor release prevention activities during maintenance of the digesters, i.e. venting the biogas from one digester to another
2. Liquid Treatment – discuss the two wet scrubbers
 - a. Normal Operations – discuss what has to happen to control odors such as equipment working properly & how monitored; start-up & shut down procedures; what are the odor scrubbing performance indicators (i.e., chemical strength, rate of change, head space H₂S concentration)
 - b. Contingency Plans – discuss redundancy & back-up power, equipment breakdown
 - c. Maintenance Program – how we control odors during cleaning of the odor scrubber systems; cleaning procedure; who is responsible, maintenance record keeping
3. Biosolids & Energy Recovery Facilities – discuss the wet scrubber
 - a. Normal Operations – discuss what has to happen to control odors such as equipment working properly & how monitored; start-up & shut down procedures: what are the odor scrubbing performance indicators (i.e., chemical strength, rate of change, head space H₂S concentration)
 - b. Contingency Plans – discuss redundancy & back-up power, equipment breakdown
 - c. Maintenance Program – how we control odors during cleaning of the odor scrubber systems; cleaning procedure; who is responsible, maintenance record keeping
4. Biosolids & Energy Recovery Facilities – discuss the RTO
 - a. Normal Operations – discuss what has to happen to control odors such as equipment working properly & how monitored, start-up & shut down procedures

- b. Contingency Plans – discuss redundancy & back-up power, equipment breakdown
 - c. Maintenance Program – how we control odors during cleaning of the RTO; cleaning procedure; who is responsible, maintenance record keeping
 - 5. Control of odors during maintenance of the dryer
- B. Chemical Systems
 - 1. Chemical Deliveries – discuss that chemicals are piped into storage tanks & do not cause odors
 - 2. Chemical System Storage/Feed Operations/Usage Quantities
 - 3. Chemical Systems Maintenance – who is responsible, maintenance record keeping
- C. Record Keeping
 - 1. Operating Records (Need to connect downtimes with heat dryer downtimes)
 - 2. Scheduled Preventive Maintenance Activities
 - 3. Unscheduled Maintenance

IV. ODOR MONITORING PROGRAM

- A. Preventative Odor Monitoring Program
 - 1. Use of OdoWatch technology
 - 2. eNoses Installation Locations – assume on the two liquid treatment odor scrubbers, the biosolids wet scrubber stack, and the RTO stack (not in OdoWatch proposal, but IRWD is considering it)
 - 3. Use of Information – by operators to react to odor events before odor reaches sensitive receptors
- B. Manual Odor Monitoring Program
 - 1. Monitoring Methods – IRWD operators use a monitoring device, monitoring forms
 - 2. Monitoring Points – provide a map of the sampling locations on IRWD property and in the neighborhood
 - 3. Odor Monitoring Schedule – this may be seasonally adjusted due to weather
 - 4. Storing and Archiving Monitoring Data

C. Monitoring Program Adjustment – Decision Making Protocol

1. Changing Monitoring Schedule
2. Adding New Monitoring Points
3. Adding Temporary Monitoring Points
4. Retiring Less Useful Monitoring Points

D. Odor Episode Investigations

1. Procedure to validate & characterize an odor complaint – who at IRWD is responsible for what duties, i.e. Operations, Public Affairs, others
2. Designated Public Contacts – let's discuss what key agencies/individuals are to receive notification, i.e. City of Irvine
3. Data collection and report distribution – let's discuss if similar info goes to IRWD management, an outside agency like the city, and to the public. What goes on the website.

E. Baseline Data From Before Plant Operation

F. Presenting IRWD's odor control maintenance & monitoring program and updates to the public during construction per the commitments in the SEIR.

1. Who is invited
2. Educating the public about odors and the plan
3. Meeting schedule

List of Figures

- Figure 1. Treatment Plant Process Diagram (simple)
- Figure 2. Liquid Treatment
- Figure 3. Biosolids Treatment
- Figure 4. Plant Map Treatment Processes and Foul Air Collection Points
- Figure 5. Site Map Showing Boundaries for Odor Control
- Figure 6. Process Diagram of Odor Control Scrubbers
- Figure 7. Process Diagram of RTO (heat dryer system)
- Figure 8. Detail Map Showing Location of Scrubbers and Chemical Storage
- Figure 9. Map of Monitoring Locations
- Figure 10. Photos of monitoring equipment (hand held and fixed-location devices)

List of Tables

- Table 1. Baseline Odor Data
- Table 2. Monitoring Frequency by Location

Appendix 1

Monitoring Equipment and Procedures

- A. Monitoring Equipment
 - 1. Calibrating Monitoring Equipment Overview (Refer to instruction manuals for details)
 - 2. Operating Monitoring Equipment Overview (Refer to instruction manuals for details)
 - 3. Maintaining Monitoring Equipment (Refer to O&M manuals for details)
 - 4. Preventive Maintenance Schedule
- B. Procedures for Collecting, Storage, and Shipping Calibration Samples
- C. Laboratory Analysis/Contract Labs (Refer to procedures, Laboratory Contact Information)

Appendix 2

Record Keeping

- A. Operating Records
- B. Maintenance Records
- C. Odor Events & Resolution

**TABLE 1
IRVINE RANCH WATER DISTRICT
ODOR CONTROL MAINTENANCE AND MONITORING PROGRAM
FEE ESTIMATE SPREADSHEET**

Description	Project Manager Buhmaster	Engineer 7 Chow	Engineer 7 Van Durme	Engineer 5 Massart	Engineer 2	Engineer 1	Engineering Tech 4	Engineering Tech 2	Total Labor Hours	Total Labor Fee	Subcontractor	Expensas	Total Fee
Billing Rate (\$/hr)	\$240	\$220	\$220	\$180	\$120	\$110	\$105	\$95			ESA		
Task 1: Introduction and Project Background Subtotal	2	52	2	13	8	46	28	20	169	\$25,120	\$9,262	\$1,479	\$35,861
Task 2: Maintenance Program Subtotal	0	6	32	7	72	8	16	11	152	\$21,865	\$3,130	\$3,930	\$28,925
Task 3: Odor Monitoring Program Subtotal	0	47	16	2	0	52	8	2	125	\$20,530	\$10,880	\$1,094	\$32,504
Task 4: Compile Findings into a Single Document Subtotal	6	26	8	8	0	28	0	0	76	\$13,440	\$1,270	\$665	\$15,375
Total	8	131	58	30	80	134	52	33	522	\$80,955	\$24,542	\$7,168	\$112,665

**IRVINE RANCH WATER DISTRICT
EXHIBIT "B"
PROFESSIONAL SERVICES VARIANCE**

Project Title: MWRP Biosolids & Energy Recovery Facilities – Construction Phase Services
 Project No.: 21146 (4286) Date: April 29, 2014
 Purchase Order Nos.: 514248 Variance No.: 2

Originator: IRWD ENGINEER/CONSULTANT Other (Explain) _____

Description of Variance (attach any back-up material):

At the request of IRWD, prepare an Odor Control Maintenance and Monitoring Program (OCMMP) for implementation by plant staff. See attached scope of work and OCMMP Outline for detailed description.

Engineering & Management Cost Impact:

Classification	Man-hours	Billing Rate	Labor \$	Direct Costs	Subcon. \$	Total \$
See attached fee estimate spreadsheet						
Total \$ =						112,665

Schedule Impact:

Task No.	Task Description	Original Schedule	Schedule Variance	New Schedule
2	Construction Administration Support Services	April 30, 2017	0 days	April 30, 2017

Required Approval Determination:

Total Original Contract	\$ <u>12,509,031</u>	[] General Manager: Single Variance less than or equal to \$30,000.
Previous Variances \$	<u>0</u>	
This Variance	\$ <u>112,665</u>	[] Committee: Single Variance greater than \$30,000, and less than or equal to \$60,000.
Total Sum of Variances	\$ <u>777,265</u>	[X] Board: Single Variance greater than \$60,000.
New Contract Amount	\$ <u>13,286,296</u>	
Percentage of Total Variances to Original Contract	<u>6.2%</u>	[] Board: Cumulative total of Variances greater than \$60,000, or 30% of the original contract, whichever is higher.

ENGINEER/CONSULTANT: Black & Veatch Corp.

IRVINE RANCH WATER DISTRICT

Thomas Burmeister
Project Engineer/Manager
Date April 29, 2014

John M. ...
Department Director
Date 5/12/14

[Signature]
Engineer's/Consultant's Management
Date April 29, 2014

General Manager/Comm./Board
Date _____

IRVINE RANCH WATER DISTRICT

PROFESSIONAL SERVICES VARIANCE REGISTER

Project Title: MWRP Biosolids and Energy Recovery Facilities – Construction Phase Services

Project No.: 21146 (4286) Project Manager: Steve Malloy

Variance No.	Description	Dates		Variance Amount
		Initiated	Approved	
1	Add a Field Electrical Engineer & Automation Engineer	02-05-14	Approved <i>03-25-14</i>	\$664,600
2	Prepare an Odor Control Maintenance and Monitoring Program (OCMMP)	04-29-14	Pending	\$112,665

OS
May 27, 2014
Prepared by: S. Toland/R. Mori
Submitted by: K. Burton (K.B.)
Approved by: Paul Cook / [Signature]

ACTION CALENDAR

BAKER WATER TREATMENT PLANT CONSTRUCTION HEARING ON R.B. SHEET METAL SUBCONTRACTOR SUBSTITUTION

SUMMARY:

Staff received a written request from PCL Construction, Inc., the Baker Water Treatment Plant contractor, to substitute a named subcontractor, R.B. Sheet Metal, listed in their bid schedule on the grounds of being unresponsive in honoring its bid day proposal. Pursuant to California Public Contract Code 4107, IRWD is obligated to send notice of the request for substitution to the subcontractor, and in the event of an objection, IRWD is obligated to investigate the positions of both companies and to establish a hearing with the "awarding authority", in this case the IRWD Board of Directors, such that each party may state their position.

Staff has conducted an investigation as described herein and recommends that the Board approve PCL's request to substitute their named sheet metal subcontractor, R.B. Sheet Metal, on the grounds that (1) R.B. Sheet Metal's promise to sign its subcontract is contingent upon a favorable determination of a product substitution request, inconsistent with the applicable contract requirements and (2) the proposed substitute product is not deemed equivalent to the specified product.

HEARING

OUTLINE OF PROCEEDINGS

President: Declare this to be the time and place for a hearing on the R.B. Sheet Metal Subcontractor Substitution item, and declare the hearing open. Ask the Secretary how the hearing was noticed.

Secretary: The hearing was noticed by certified letter dated May 19, 2014 to R.B. Sheet Metal, providing the five working days notice required by statute.

President: Ask for a motion to receive and file the letter to R.B. Sheet Metal:

RECOMMENDED MOTION: "RECEIVE AND FILE THE CERTIFIED LETTER DATED MAY 19, 2014 TO R.B. SHEET METAL PRESENTED BY THE SECRETARY."

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

Legal
Counsel: Describe the proceedings.

Secretary: The District is in receipt of four letters as follows:
1) April 3, 2014 – PCL request for substitution;
2) April 10, 2014 – District notice to R.B. Sheet Metal of receipt of request;
3) R.B. Sheet Metal objections to substitution which is undated; however it was received April 17, 2014; and
4) May 19, 2014 – District notice to R.B. Sheet Metal of preliminary findings and inviting response, and giving notice of hearing.

President: Inquire of the staff how they investigated the PCL request for substitution, and the subcontractor's objections.

Staff: Staff to Respond

President: Inquire whether representatives of PCL and R.B. Sheet Metal would like to address the Board.

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

President: Ask for a motion of the Board:

RECOMMENDED MOTION: "THAT THE BOARD APPROVE PCL CONSTRUCTION, INC.'S REQUEST TO SUBSTITUTE THEIR NAMED SHEET METAL SUBCONTRACTOR, R.B. SHEET METAL, INC., ON THE GROUNDS THAT (1) R.B. SHEET METAL'S PROMISE TO SIGN ITS SUBCONTRACT IS CONTINGENT UPON A FAVORABLE DETERMINATION OF A PRODUCT SUBSTITUTION REQUEST, INCONSISTENT WITH THE APPLICABLE CONTRACT REQUIREMENTS AND (2) THE PROPOSED SUBSTITUTE PRODUCT IS NOT DEEMED EQUIVALENT TO THE SPECIFIED PRODUCT".

BACKGROUND:

The Baker Water Treatment Plant construction contract was awarded to PCL Construction, Inc. on January 6, 2014 and a Notice to Proceed was issued February 5, 2014. IRWD's Bid Documents require the bidder to list "the name and location of place of business of each subcontractor who will perform work or labor or render service to the bidder in or about the construction of the Work, or improvements, in an amount in excess of ½ of 1 percent (0.5%) of the bidder's total Bid...." On its Bid Form, PCL listed R.B. Sheet Metal as the named subcontractor for metal wall and roof panels. On April 3, 2014 PCL sent a letter to IRWD, presented as Exhibit "A", requesting to substitute R.B. Sheet Metal. The letter stated that R.B. Sheet Metal was unresponsive in honoring its Bid Day proposal for metal wall and roof panels per the Bid Documents.

Pursuant to California Public Contract Code 4107, IRWD is obligated to send a notification of the substitution request to the listed subcontractor. On April 10, 2014, IRWD sent a letter,

presented as Exhibit "B", to R.B. Sheet Metal notifying them of PCL's request to substitute, and that per Public Contract Code 4107, R.B. Sheet Metal has five working days to submit a written objection to the request. On April 17, 2014, IRWD received an email response from R.B. Sheet Metal with letter attachment, presented as Exhibit "C", and on April 22, 2014 IRWD received a mailed hardcopy of the letter objecting to the request to substitute the subcontractor. In the response letter, R.B. Sheet Metal requested a formal hearing with IRWD as prescribed in Public Contract Code 4107.

Public Contract Code 4107 establishes that if written objections are received, a written notice shall be given to the listed subcontractor of a hearing by the awarding authority regarding the prime contractor's request for a substitution. In preparation for the hearing, staff conducted an investigation into the positions of both PCL and R.B. Sheet Metal, which are further summarized below. On May 8, 2014, IRWD sent a letter, presented as Exhibit "D", to R.B. Sheet Metal summarizing staff's preliminary findings, and on May 19, 2014, IRWD sent a letter, presented as Exhibit "E", to R.B. Sheet Metal identifying the date and time of the requested hearing.

Investigation Findings:

PCL and R.B. Sheet Metal Positions:

Both PCL and R.B. Sheet Metal have stated their positions regarding the request to substitute the listed subcontractor within their respective letters. PCL's position is that they accepted R.B. Sheet Metal's proposal on bid day based on the understanding that it was per plans and specifications. During the process of developing a contract with PCL, R.B. Sheet Metal notified PCL that its bid was based on a substitution or "or equivalent" product to the specified supplier. R.B. Sheet Metal would not enter into an agreement based on the named supplier and PCL subsequently deemed R.B. Sheet Metal to be unresponsive.

R.B. Sheet Metal's position is that the specification sections associated with its objection listed a single manufacturer as the basis of design, and that under Public Contract Code 3400 other products of equal or superior design must be considered in the bid process. R.B. Sheet Metal states in its letter that it is requesting that its "or equivalent" product substitution be considered, prior to entering into a subcontractor agreement with PCL.

Staff Findings:

Pursuant to Section 1.7 of the Instructions to Bidders incorporated within the Contract Documents, a subcontract bid is not permitted to be conditioned or qualified based upon the acceptance of an "or equal" substitution, which will not be considered until after the Agreement is effective. Section 1.7 provides:

1.7 Substitute and Or Equivalent Items

The contract, if awarded, will be on the basis of materials and equipment shown or specified in the Contract Documents without consideration of possible substitute or "or equivalent" items. Application for acceptance of a substitute or "or equivalent" item of material or equipment will not be considered by DISTRICT until after the effective date

of the Agreement except as may be specified for major items of equipment in the Special Provisions. The procedure for submission of a request for substitution is set forth in the general provisions.

Section 1.7 of the Instructions to Bidders applies equally to subcontracts, as subcontracts are required to bind the subcontractor to the same provisions as the Contractor under Section 6.6 of the contract General Provisions, and under Section 7.9.3 of the General Provisions governing substitution of items, all substitution requests must go through the Contractor: "Requests for review of substitute items of material and equipment will not be accepted by DISTRICT from anyone other than CONTRACTOR".

R.B. Sheet Metal's request violates the requirement of Section 1.7 of the Instructions to Bidders by conditioning the willingness to sign a subcontract upon the acceptance of the "or-equivalent" substitution. Contingent signing of the subcontract is not permissible, and satisfies one of the grounds for substitution specified in Public Contract Code Section 4107(a)(1): "(1) When the subcontractor listed in the bid, after having had a reasonable opportunity to do so, fails or refuses to execute a written contract for the scope of work specified in the subcontractor's bid and at the price specified in the subcontractor's bid, when that written contract, based upon the general terms, conditions, plans, and specifications for the project involved or the terms of that subcontractor's written bid, is presented to the subcontractor by the prime contractor".

In addition to requesting the substitution of R.B. Sheet Metal as subcontractor, PCL further asserts that in light of the above described violation of contract provisions, for the District to entertain the product substitution request would render the competitive process unfair to PCL's other bidders for the metal wall and roof panel subcontract. After having been given an opportunity to do so by staff, R.B. Sheet Metal has not responded to the finding that its contingent willingness to sign the subcontract is not permitted under the applicable contract language, and satisfies a statutory ground for substitution asserted by PCL. Without further evaluation, staff believes that the Board would be entitled to approve PCL's substitution request on this ground.

In the event a response to this ground might be made, staff summarizes the product comparison, as follows:

- 1) Product comparison of metal wall panels: Staff and the Architect of Record evaluated the proposed substitute, Kingspan Benchmark Designwall 2000, and determined it is not equal to the specified product, Centria Formawall Dimension Series. The manufacturing ingredients and fabrication elements for the specified product are considered to produce a higher quality and longer product life than those used in the product proposed to be substituted. In particular, the core density of the proposed substitution fails to meet the minimum 2.7 pounds per cubic foot as specified, resulting in larger cell structure of the foam and greater potential to break the bonds of the cells. In addition, the proposed Kingspan Designwall 2000 is a laminated system, whereas the specified Centria Formawall is a foamed-in-place method providing for a stronger panel that is less likely to delaminate.

- 2) Product comparison of composite wall panels: Staff and the Architect of Record evaluated the proposed substitute, Alcoa ReynoBond Composite Material Fabricated by Compass Cladding, and determined it is not equal to the specified product, Centria Formawall Composite Wall Panel System. The fabrication elements for the specified product are considered to produce a higher quality and longer product life than those used in the product proposed to be substituted. Deficiencies of the substitution are summarized as follows:
- 1) Substitution does not meet minimum specified thickness of 8 mm.
 - 2) Section 00420 – Product Substitutions require that the request include sufficient manufacturer’s literature clearly marked to show compliance of proposed product with the Contract Documents, as well as an itemized comparison of original and proposed product, addressing product characteristics. The information on the requested substitution failed to demonstrate compliance with the following specifications:
 - Section 07430, Part 2 – C.1.b specifies maximum allowable distortion of 1/32-inch within 24-inches in any direction. Submitted literature failed to provide confirmation.
 - Section 07430, Part 2 – C.1.c specifies pressure-equalized horizontal joints. Submitted literature failed to provide confirmation.

Staff has reviewed this matter, along with its findings, with IRWD’s Legal Counsel.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

None.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

LIST OF EXHIBITS:

- Exhibit “A” – PCL Construction, Inc. letter to IRWD dated April 4, 2014: Request to Substitute Listed Subcontractor
- Exhibit “B” – IRWD letter to R.B. Sheet Metal dated April 10, 2014: R.B. Sheet Metal Notification of Substitution Request
- Exhibit “C” – R.B. Sheet Metal Letter to IRWD date stamped April 17, 2014
- Exhibit “D” – IRWD letter to R.B. Sheet Metal dated May 10, 2014: IRWD Investigation of R.B. Sheet Metal Objection to Subcontractor Substitution
- Exhibit “E” – IRWD letter to R.B. Sheet Metal dated May 19, 2014: IRWD Investigation of R.B. Sheet Metal Objection to Subcontractor Substitution and Notice of Hearing



EXHIBIT "A"

CONSTRUCTION LEADERS

April 3rd, 2014

LETTER # BKR-035

Mr. Scott Toland
IRWD

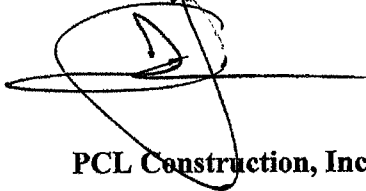
Re: Baker Water Treatment Plant Project
Request to Substitute Listed Subcontractor – RB Sheet Metal Inc.

Dear Scott:

In the bid documents submitted to IRWD for the Baker WTP Project, PCL Construction ("PCL") listed RB Sheet Metal Inc. as the subcontractor for Metal Panel and Roofing. RB Sheet Metal's bid day quote for metal panel and roofing (attached) stated that their bid was "per plans and specifications". In good faith, PCL has attempted to enter into a subcontract with RB Sheet Metal based upon accordance with the bid documents.

Unfortunately, RB Sheet Metal has refused to sign a subcontract binding them to the bid documents because, despite their quote stating otherwise, their price reflects deviations from the specification requirements. RB Sheet Metal's failure to honor their bid day quote and execute a subcontract requiring them to abide by the bid documents has forced PCL to deem RB Sheet Metal as unresponsive. Pursuant to California Public Contract Code Section 4107(a)(1), PCL respectfully requests written authorization from IRWD to substitute a compliant bidder in place of RB Sheet Metal.

Sincerely,

A handwritten signature in black ink, appearing to be "D", written over a horizontal line. The signature is enclosed in a large, hand-drawn oval.

PCL Construction, Inc.

Daña Lebeda
Project Manager

cc: B. Kinney, M. McKinney, S. Britton, file
Enclosures (3)

PCL CONSTRUCTION, INC.
255 Rincon St., Suite 321, Corona, CA 92880
Telephone: (951) 520-2672 Fax: (951) 520-2684



CONSTRUCTION LEADERS

March 17th, 2014

LETTER # BKR-026

Mr. Robert Barnes
RB Sheet Metal

Re: Baker Water Treatment Plant Project
Metal Roof / Wall Panel Subcontract

Dear Robert:

Attached please find a subcontract for the Baker WTP Project for your review and signature. In accordance with your proposal, dated September 26, 2013, the subcontract requires RB Sheet Metal to furnish and install all metal roof panels, metal wall panels, and composite wall panels in accordance with the plans and specifications. If PCL is not in receipt of two (2) wet signed copies of the subcontract within five (5) business days of delivery to RB Sheet Metal (confirmed via certified mail), PCL will consider RB Sheet Metal as non-responsive. In the event you are found to be non-responsive, PCL will notify the Owner and request that the second bidder be listed for the subject scope of work.

Sincerely,

A handwritten signature in black ink, appearing to be "PCL Construction, Inc.", written over a circular scribble.

PCL Construction, Inc.

Daña Lebeda
Project Manager

cc: file
Enclosures (1)

PCL CONSTRUCTION, INC.
255 Rincon St., Suite 321, Corona, CA 92880
Telephone: (951) 520-2672 Fax: (951) 520-2684

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

RB SHEET METAL
1893 CAPRI AVENUE, UNIT G
MENDOTA, CA 92359
ROBERT BARNES

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee

B. Received by (Printed Name) C. Date of Delivery
Laura Gutierrez 3/27/14

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Certified Mail® Priority Mail Express™
 Registered Return Receipt for Merchandise
 Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number
(Transfer from service label)

7013 2630 0000 9066 6850

PS Form 3811, July 2013

Domestic Return Receipt

RB SHEET METAL, INC.

Local 105

1893 Capri Ave., Unit "G" Mentone, CA 92359
 (909) 794-1775 Fax: 794-1792 Lic.# 639711

To: PCL Construction
 Attn: Justin Garner

Proposal

Date: 9/26/2013

Baker Water Treatment Plant

We propose to furnish and install the items described below
per plans and specifications, unless otherwise noted:

Spec. Section	Scope of Work - Description	
07410	Metal Wall Panels	\$ 171,000 ^{305,000}
07411	Preformed Metal Roof Panels	\$ 622,000
07430	Composite Wall Panels	\$ 159,000
07620	Sheet Metal Flashing and trim	\$ 58,000
07631	Gutters and Downspouts	\$ 42,000
07710	Mfg. Roof Specialties	-----
07720	Roof Accessories (Hatches)	\$ 102,875
07910	Expansion Joints (Including joints in 07710)	\$ 68,500.00
08625	Tubular Skylights	\$ 102,960.00
15800	HVAC - Louvers Only	\$ 105,600.00

wood Nailer

90,000

Inclusions: Underlayment's as applicable, poly-iso at Metal roofing, Joint sealants as applicable

Exclude:

Addendums Noted: √ 1-3

Wage Rate: Prevailing

$\Sigma = \$1,655,935$

Submitted by: Robert W. Barnes

rb.sheetmetal@verizon.net

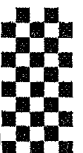




EXHIBIT "B"

IRVINE RANCH WATER DISTRICT

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

April 10, 2014

PR 11747 (5027)

VIA E-MAIL (RBSHEETMETAL@VERIZON.NET)
CERTIFIED MAIL

Mr. Robert W. Barnes
RB Sheet Metal, Inc.
1893 Capri Ave., Unit "G"
Mentone, CA 92359

Subject: Baker Water Treatment Plant

Dear Mr. Barnes:

The Irvine Ranch Water District ("IRWD") is hereby notifying RB Sheet Metal, Inc. ("RB Sheet Metal"), of the request of PCL Construction, Inc. ("PCL") to substitute in Crowner Sheet Metal ("Crowner"), as the subcontractor to furnish and install all metal roof panels, metal wall panels, and composite wall panels on the above-referenced project. PCL has issued its request pursuant to Public Contract Code Section 4107, on the grounds that RB Sheet Metal has refused to execute a written contract for all metal roof panels, metal wall panels, and composite wall panels per plans and specifications. A copy of PCL's request is attached for your convenience.

Pursuant to Public Contract Code Section 4107, RB Sheet Metal has five working days from the date of this letter, or until **April 16, 2014**, in which to submit to IRWD written objections to PCL's request. Failure to timely submit such objections will be deemed by IRWD to reflect RB Sheet Metal's consent to such substitution. (Pub. Contract Code § 4107(a)(1).) If RB Sheet Metal files a written objection within such time, IRWD will provide notice to both parties of the date and time for a hearing as to PCL's request.

If you have any questions, or require further information, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Toland".

Scott Toland, P.E.
Senior Engineer

Enclosure – PCL Construction, Inc. letter dated April 3, 2014

cc: Dana Lebeda, Project Manager, PCL Construction, Inc.
Joan Arneson, Bowie, Arneson, Wiles & Giannone
Richard K. Mori, P.E. Principal Engineer – Capital Project, Irvine Ranch Water District



CONSTRUCTION LEADERS

April 3rd, 2014

LETTER # BKR-035

Mr. Scott Toland
IRWD

**Re: Baker Water Treatment Plant Project
Request to Substitute Listed Subcontractor – RB Sheet Metal Inc.**

Dear Scott:

In the bid documents submitted to IRWD for the Baker WTP Project, PCL Construction ("PCL") listed RB Sheet Metal Inc. as the subcontractor for Metal Panel and Roofing. RB Sheet Metal's bid day quote for metal panel and roofing (attached) stated that their bid was "per plans and specifications". In good faith, PCL has attempted to enter into a subcontract with RB Sheet Metal based upon accordance with the bid documents.

Unfortunately, RB Sheet Metal has refused to sign a subcontract binding them to the bid documents because, despite their quote stating otherwise, their price reflects deviations from the specification requirements. RB Sheet Metal's failure to honor their bid day quote and execute a subcontract requiring them to abide by the bid documents has forced PCL to deem RB Sheet Metal as unresponsive. Pursuant to California Public Contract Code Section 4107(a)(1), PCL respectfully requests written authorization from IRWD to substitute a compliant bidder in place of RB Sheet Metal.

Sincerely,

A handwritten signature in black ink, appearing to be "PCL Construction, Inc.", written over a horizontal line. The signature is stylized and somewhat illegible.

PCL Construction, Inc.

Daña Lebeda
Project Manager

cc: B. Kinney, M. McKinney, S. Britton, file
Enclosures (3)

PCL CONSTRUCTION, INC.
255 Rincon St., Suite 321, Corona, CA 92880
Telephone: (951) 520-2672 Fax: (951) 520-2684

EXHIBIT "C"

RB SHEET METAL, INC.

1893 Capri Ave., Unit "G" Mentone, CA 92359
Phone: (909) 794-1775 Fax: (909) 794-1792
e-mail: rbsheetmetal@verizon.net

BWTP & RWCF

APR 17 2014
IRVINE RANCH
WATER DISTRICT

email: 4/17 11:31:59AM

To: Irvine Ranch Water District
Attn: Scott Toland

RE: Baker Water Treatment Plant

Mr Toland- In response to your letter to us indicating PCL Construction, Inc.'s desire to substitute another contractor for us on the grounds that we are unresponsive, we would like to offer our objections to this action based on the following:

We have attempted to have PCL submit for review products in the following categories which fall under our scope-

- 07410 - Metal Wall Panels
- 07411 - Preformed Metal Roof Panels
- 07430 - Composite Wall Panels

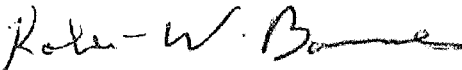
Each one of these categories as specified lists only one product as the basis of design - In order to comply with the California Public Contract Code Section 3400, based on the "basis of design" verbage used, other products of equal or superior design must be considered in the bid process. I don't think I need to go into the legal minutiae at this time, but for PCL to indicate that we are non-compliant and not per plans and specifications is not correct.

We, RB Sheet Metal, Inc. through our proposed alternate suppliers, have submitted to PCL product information and data which would easily allow these substitutions to be reviewed and most likely approved by you and the architects/engineers, but for reasons unbeknownst to us PCL has refused to submit any of this information on our behalf. When asked for a written response as to why they were summarily rejecting our requests and choosing to ignore PCC 3400, their response was to send us a contract with an

arbitrary signing deadline which we chose not to meet because of these outstanding issues.

We are not looking to start out this project on an adversarial basis, but neither are we asking for a radical departure from the design basis as specified- the supply companies we would like to use, unlike the manufacturers listed in the named specs, have production based in California, (which PCC 3400 also favors), and all we are asking for is a fair shake at using these suppliers while at the same time making sure we and all other parties involved are in compliance with the California Public Contract Code as written and intended.

Please provide us at your convenience with the date and time of the hearing per your letter as we are formally objecting to PCL's request to have us substituted, and thank you for your consideration.

Sincerely, 

Robert W. Barnes,
President, RB Sheet Metal, Inc.

Anita Arant - Baker Water Treatment Plant and PCL Construction

From: "Robert Barnes" <rbsheetmetal@verizon.net>
To: "Scott Toland" <Toland@irwd.com>, "Anita Arant" <ARANT@irwd.com>
Date: 4/17/2014 11:31 AM
Subject: Baker Water Treatment Plant and PCL Construction
Attachments: BakerPCLPCC340020140417_11182751.pdf

Scott Toland, Anita Arant

Please see the attached letter which is our response to your letter dated April 10,2014. Hard copy is being overnighted today, Please feel free to contact us if you have any questions or comments; we look forward to resolving this as quickly as possible.

Thank You,

Robert W. Barnes
RB Sheet Metal, Inc.
rbsheetmetal@verizon.net
(909) 794-1775
Fax 794-1792
Cell (909) 841-5199



EXHIBIT "D"

IRVINE RANCH WATER DISTRICT

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

May 8, 2014

PR 11747 (5027)

VIA E-MAIL (RBSHEETMETAL@VERIZON.NET)
CERTIFIED MAIL

Mr. Robert W. Barnes
RB Sheet Metal, Inc.
1893 Capri Ave., Unit "G"
Mentone, CA 92359

Subject: Baker Water Treatment Plant – IRWD Investigation of RB Sheet Metal Objection to Subcontractor Substitution

Dear Mr. Barnes:

IRWD is in receipt of your undated letter (received by IRWD on April 17, 2014) regarding your objection to PCL's request for a named subcontractor substitution, and your request for a hearing of the matter. In preparation for setting the hearing, District staff is required to investigate the matter for the purpose of making recommendations to the Board of Directors. Our investigation includes our requests for information from you and PCL.

Preliminary Finding No. 1. The District's first proposed finding is that, pursuant to Section 1.7 of Instructions To Bidders incorporated within the Contract Documents, a subcontract bid is not permitted to be conditioned or qualified based upon the acceptance of an "or equal" substitution, which will not be considered until after the Agreement is effective. Section 1.7 provides:

1.7 Substitute and Or Equivalent Items

The contract, if awarded, will be on the basis of materials and equipment shown or specified in the Contract Documents without consideration of possible substitute or "or equivalent" items. Application for acceptance of a substitute or "or equivalent" item of material or equipment will not be considered by DISTRICT until after the effective date of the Agreement except as may be specified for major items of equipment in the Special Provisions. The procedure for submission of a request for substitution is set forth in the general provisions.

Section 6.6 of the contract General Provisions mandates that each subcontract "specifically binds the Subcontractor, supplier, or other person or organization to the applicable terms and conditions of the Contract Documents for the benefit of DISTRICT."

Your request appears to violate this requirement of IB Section 1.7 by conditioning your willingness to sign the subcontract upon the acceptance of the or-equal substitution. Please submit the basis on which you respond to this proposed finding.

Mr. Robert W. Barnes

BWTP – IRWD Investigation of RB Sheet Metal Objection to Subcontractor Substitution

May 8, 2014

Page 2

If the first proposed finding is made, that finding would conclude the evaluation of whether RB's attempt to defer signing of the subcontract was permissible, resulting in a determination that the ground for substitution specified in Public Contract Code Section 4107(a)(1) has been satisfied (“(1) When the subcontractor listed in the bid, after having had a reasonable opportunity to do so, fails or refuses to execute a written contract for the scope of work specified in the subcontractor's bid and at the price specified in the subcontractor's bid, when that written contract, based upon the general terms, conditions, plans, and specifications for the project involved or the terms of that subcontractor's written bid, is presented to the subcontractor by the prime contractor”).

Preliminary Finding No. 2. Assuming, for the sake of analysis, that you supply a sufficient response to the first proposed finding, the second issue being evaluated by District staff is whether your or-equal submission is acceptable. It is first noted that Section 7.9 of the General Provisions requires that all or-equal submissions will be made by the Contractor, and that the District “shall be the sole judge of acceptability.” Based on your submission and analysis associated with Specification Section 07410, the District's technical analysis of the product comparison is that the proposed substitute, Kingspan Benchmark Designwall 2000, is not equal to the specified product, Centria Formawall Dimension Series. The manufacturing ingredients and fabrication elements for the specified product are considered to produce a higher quality and longer product life than those used in the product proposed to be substituted. In particular, the core density of the proposed substitution fails to meet the minimum 2.7 lb/cu.ft. as specified, resulting in larger cell structure of the foam and greater potential to break the bonds of the cells. In addition, the proposed Kingspan Designwall 2000 is a laminated system, whereas the specified Centria Formawall is a foamed-in-place method providing for a stronger panel that is less likely to delaminate.

Preliminary Finding No. 3. Based on your submission and analysis associated with Specification Section 07430, the District's technical analysis of the product comparison is that the proposed substitute, Alcoa ReynoBond Composite Material Fabricated by Compass Cladding, is not equal to the specified product, Centria Formawall Composite Wall Panel System. Deficiencies are summarized as follows:

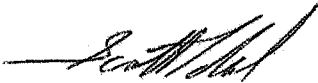
- a) Substitution does not meet specified thickness of 8mm. (Part 2 – C.1.a)
- b) Section 00420- Product Substitutions require that request include sufficient manufacturer's literature clearly marked to show compliance of proposed product with the Contract Documents, as well as an itemized comparison of original and proposed product addressing product characteristics. The information on the requested substitution failed to demonstrate compliance with the following specifications:
 - i. Part 2 – C.1.b specifies maximum allowable distortion of 1/32-inch within 24-inches in any direction. Submitted literature failed to provide confirmation.
 - ii. Part 2 – C.1.c specifies pressure-equalized horizontal joints. Submitted literature failed to provide confirmation.

Mr. Robert W. Barnes
BWTP – IRWD Investigation of RB Sheet Metal Objection to Subcontractor Substitution
May 8, 2014
Page 3

RB Sheet Metal also submitted a substitution for the named manufacturer under Section 07411 – Preformed Metal Roof Panels. This product comparison is still under review by the Architect, however in the interest of preventing further delay to the project, IRWD is proceeding with a summary of our preliminary findings which will be the basis of our recommendation to the Board of Directors.

If you have any questions or wish to discuss this matter further, please do not hesitate to contact the undersigned.

Sincerely,



Scott Toland, P.E.
Senior Engineer
Baker WTP Construction Manager

cc: Dana Lebeda, Project Manager, PCL Construction, Inc.
William Graeber, RRM Design Group
Joan Arneson, Bowie, Arneson, Wiles & Giannone
Richard K. Mori, P.E. Principal Engineer – Capital Project, Irvine Ranch Water District

EXHIBIT "E"



IRVINE RANCH WATER DISTRICT

15600 Sand Canyon Ave., P.O. Box 57000, Irvine, CA 92618-7000 (949) 453-5300

May 19, 2014

PR 11747 (5027)

VIA E-MAIL (RBSHEETMETAL@VERIZON.NET)

CERTIFIED MAIL

Mr. Robert W. Barnes
RB Sheet Metal, Inc.
1893 Capri Ave., Unit "G"
Mentone, CA 92359

Subject: Baker Water Treatment Plant - IRWD Investigation of RB Sheet Metal Objection to Subcontractor Substitution and Notice of Hearing

Dear Mr. Barnes:

On May 8, 2014, we sent a letter to you establishing our preliminary findings regarding our investigation into RB Sheet Metal's objection to subcontractor substitution, requesting that you submit a basis on which you respond to the proposed findings. We have since left RB Sheet Metal five voicemails from 5/8/14 through 5/16/14 in an effort to discuss our findings and any responses you may have. Please be advised that since we have not received a timely response from RB Sheet Metal to our letter and subsequent voicemails, we are concluding our investigation and developing a recommendation to our Board of Directors on the matter, in preparation for the hearing to be conducted pursuant to your written request.

Pursuant to Public Contract Code Section 4107, this letter serves as notice of the hearing which will be held at our next planned Board of Directors meeting on Tuesday, May 27, 2014, at 5:00PM or as soon thereafter as practicable, in the Board Room at 15600 Sand Canyon Avenue, Irvine, California, 92618. At this hearing, RB Sheet Metal and PCL will both be afforded an opportunity to present their positions on the matter, staff will present its findings and recommendations, and the Board of Directors will render a final decision.

If you have any questions, or require further information, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in cursive script, appearing to read "Scott Toland".

Scott Toland, P.E.
Senior Engineer

cc: Dana Lebeda, Project Manager, PCL Construction, Inc.
Joan Arneson, Bowie, Arneson, Wiles & Giannone
Richard K. Mori, P.E. Principal Engineer – Capital Project, Irvine Ranch Water District

DB

May 27, 2014

Prepared by: T. Bonkowski/M. Cortez

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

Approved by: Paul Cook *Paul Cook*

ACTION CALENDAR

MICHELSON WATER RECYCLING PLANT PHASE II EXPANSION LANDSCAPE CONSTRUCTION AWARD

SUMMARY:

The Michelson Water Recycling Plant (MWRP) Phase II Expansion Landscape project will install landscape planting, irrigation system and various walkway and equipment access improvements at MWRP. Staff recommends that the Board authorize the General Manager to execute a construction contract with Valley Crest Landscape Development Inc., in the amount of \$940,400 for the MWRP Phase II Expansion Landscape, Projects 20214 and 30214.

BACKGROUND:

Construction of the MWRP Phase II Expansion project was awarded to J.R. Filanc Construction Company in July 2009. Excluded from Filanc's scope of work were the landscape and irrigation improvements of the project. Since Filanc is near completion of the plant expansion work, the landscaping and irrigation system can now be installed to complete this project. The work will provide a complete landscape, hardscape and irrigation system, including clearing and grubbing, fine grading, site preparation, planting of trees and shrubs, installation of irrigation valves, piping and appurtenances, and installation of concrete and decomposed granite drives and walkways. Shadetree Nursery will supply all plant material for this project consisting of approximately 10,000 shrubs and 500 trees.

Construction Award:

The original 2009 landscape and irrigation plans were revised to coordinate with the expansion project's construction changes and the project was advertised on April 28, 2014 to a select list of five landscape contractors: Nature's Image, Pinnacle Landscape, Tropical Plaza Nursery, TruGreen LandCare and Valley Crest Landscape Development. The pre-bid job walk was held on May 5, 2014 with three contractors in attendance. Only two contractors submitted bids on May 15, 2014; Valley Crest's bid was \$940,400 and Tropical Plaza's bid was \$978,326. The engineer's estimate was \$1,155,345 and the bid summary is attached as Exhibit "A". Valley Crest has a history of successfully completing landscape projects for IRWD and the Irvine Community Development Company; they possess the requisite technical knowledge and experience to successfully complete this work.

FISCAL IMPACTS:

Projects 20214 (1599) and 30214 (1706) are included in the FY 2013-14 Capital Budget. The existing budget amount and Expenditure Authorizations are sufficient to fund this work.

Action Calendar: Michelson Water Recycling Plant Phase II Expansion Landscape Construction
Award
May 27, 2014
Page 2

ENVIRONMENTAL COMPLIANCE:

The MWRP Phase II Expansion Landscape Project is subject to the California Environmental Quality Act (CEQA) and in conformance with the California Code of Regulations Title 14, Chapter 3, Article 7, an Environmental Impact Report, SCH #2005051174, was certified by the lead agency on February 27, 2006.

COMMITTEE STATUS:

Construction awards are not routinely taken to Committee prior to submittal for Board approval.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A CONSTRUCTION CONTRACT WITH VALLEY CREST LANDSCAPE DEVELOPMENT, INC. IN THE AMOUNT OF \$940,400 FOR THE MICHELSON WATER RECYCLING PLANT PHASE II EXPANSION LANDSCAPE, PROJECTS 20214 (1599) AND 30214 (1706).

LIST OF EXHIBITS:

Exhibit "A" – Bid Summary

EXHIBIT "A"

Bid Opening: Thursday, May 15, 2014 @ 2:00 P.M.

Irvine Ranch Water District Bid Summary For
MWRP Ph. II Landscape Project
PR 20214

Entered By: N. Castaneda

				1		2			
				Engineer's Estimate		Valley Crest Landscaping		Tropical Plaza Nursery	
				Fountain Valley, CA		Villa Park, CA			
Item No.	Description	Qty	Unit	Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount
1	Mobilization, Demobilization & Clean-up	1	LS	\$30,870.00	\$30,870.00	\$37,000.00	\$37,000.00	\$37,750.00	\$37,750.00
2	Start-up testing, trouble-shooting, calibration, and system demonstration	1	LS			\$3,000.00	\$3,000.00	\$7,500.00	\$7,500.00
3	Complete landscape irrigation system including controllers with enclosures, master valves, remote control valves, underground boxes, ball valves, quick couplers, Schedule 40 mainline, Schedule 40 lateral lines, MPR 40-12 CV spray & pop-up heads, tree bubblers and any appurtenance work to insure efficient & uniform distribution as shown on Contract Documents for Milestone 1	1	LS			\$45,000.00	\$45,000.00	\$63,885.00	\$63,885.00
4	Complete landscape planting as shown on the contract Documents, including but not limited to fine grading hardscape, soil preparation, planting of tree shrubs, groundcover plants, guying and staking trees, clearing and grubbing of the entire site and weed abatement for Milestone 1. Trees and plants are to be provided by Shadetree Partnership. Contractor is responsible for transporting the trees and plants from Shadetree Partnership Nursery to	1	LS			\$66,000.00	\$66,000.00	\$73,374.00	\$73,374.00
5	Complete landscape irrigation system including controllers with enclosures, master valves, remote control valves, underground boxes, ball valves, quick couplers, Schedule 40 mainline, Schedule 40 lateral lines, MPR 40-12 CV spray & pop-up heads, tree bubblers and any appurtenance work to insure efficient & uniform distribution as shown on Contract Documents not included in Bid Item No.3	1	LS	\$527,842.25	\$527,842.25	\$295,000.00	\$295,000.00	\$262,109.00	\$262,109.00
6	Complete landscape planting as shown on the contract Documents, including but not limited to fine grading hardscape, soil preparation, planting of tree shrubs, groundcover plants, guying and staking trees, clearing and grubbing of the entire site and weed abatement not included in Bid Item 4. Trees and plants are to be provided by Shadetree Partnership. Contractor is responsible for transporting the trees and plants from Shadetree Partnership Nursery to MWRP job site	1	LS	\$421,341.75	\$421,341.75	\$434,000.00	\$434,000.00	\$467,818.00	\$467,818.00

Bid Opening: Thursday, May 15, 2014 @ 2:00 P.M.

Irvine Ranch Water District Bid Summary For
MWRP Ph. II Landscape Project
PR 20214

Entered By: N. Castaneda

		Engineer's Estimate			1 Valley Crest Landscaping Fountain Valley, CA		2 Tropical Plaza Nursery Villa Park, CA		
Item No.	Description	Qty	Unit	Unit Price	Total Amount	Unit Price	Total Amount	Unit Price	Total Amount
7	IRWD Planting Day Event - Total Costs include labor, materilas, and equipment ot assist IRWD with Planting Day Event (09/27/14)	1	LS			\$4,500.00	\$4,500.00	\$5,000.00	\$5,000.00
8	Operation & Maintenance Manuals, Record Drawings and Warranties	1	LS	\$3,000.00	\$3,000.00	\$2,000.00	\$2,000.00	\$3,000.00	\$3,000.00
9	Trench & Project Safety Measures	1	LS			\$4,000.00	\$4,000.00	\$2,500.00	\$2,500.00
10	One-year Service Maintenance Agreement (NOTE: The Service maintenaaance Agreement will be included in the Base Bid Price and used in the evaluation of Bids. However, the Service Agreement will be executed 35 days after the filing of Noice of Completion of this Contract with the County of Orange. Therefore, the bid price for the servcie agreement will be excluded from the	1	LS	\$101,020.00	\$101,020.00	\$41,900.00	\$41,900.00	\$45,000.00	\$45,000.00
11	Install 8-inch deep CMB (Crushed Misc Base), as directed by IRWD. Bid item quantity is 100 CY	100	CY	\$28.20	\$2,820.00	\$80.00	\$8,000.00	\$103.90	\$10,390.00
	Sub-Total, Bid Items 1 thru 61 + A1				\$1,086,894.00		\$940,400.00		\$978,326.00
	Adjustment (+ or -)				\$0.00		\$0.00		\$0.00
	Total Amount of Bid				\$1,086,894.00		\$940,400.00		\$978,326.00
						Item Delivery Dates:		Item Delivery Dates:	
						Not Provided		Not Provided	
						Manufacturers:		Manufacturers:	
						Irrigation	Imperial Sprinkler Supply	Irrigation	John Deer Landscapes
						Landscape	Shadtree Partnership	Landscape	John Deer Landscapes
						Gravel	West Coast Sand & Gravel	Gravel	West Coast Sand & Gravel
						DG	West Coast Sand & Gravel	DG	Southwest Boulders
						Block	Resource Building Materilas	Block	Allen Block/Arco Block
						Lumber	Ganahl Lumber	Lumber	Ganahl Lumber
						Subcontractors:		Subcontractors:	
						Quality Curb		McGrew Masonry, Inc	
						6892 Doolittle Asve		2136 Denise Ave	
						Riverside Ca 92503		Orange, Ca 92867	

DS

May 27, 2014

Prepared by: J. McGehee/R. Mori

Submitted by: K. Burton *KB*

Approved by: Paul Cook *Paul Cook*

ACTION CALENDAR

STOCKDALE WEST WELLHEAD EQUIPPING AND CONVEYANCE FACILITIES CONSULTANT SELECTION

SUMMARY:

The Rosedale-Rio Bravo Water Storage District and Irvine Ranch Water District (IRWD) are jointly developing the Stockdale Integrated Banking Project. The Stockdale Project includes constructing water banking facilities on Rosedale's and IRWD's respective Stockdale properties. As part of the Stockdale Project, IRWD plans to construct three new extraction wells on the Stockdale West Ranch property. The Stockdale West Wellhead Equipping and Conveyance Facilities Project includes equipping the three new wells and constructing a new conveyance system to the nearby channel. Staff recommends that the Board:

- Approve an Expenditure Authorization in the amount of \$272,600 for the Stockdale West Wellhead Equipping and Conveyance Facilities Project; and
- Authorize the General Manager to execute a Professional Services Agreement with URS Corporation, in the amount of \$225,785, for engineering services for the Stockdale West Wellhead Equipping and Conveyance Facilities, Project 11645.

BACKGROUND:

IRWD and Rosedale are partners in the Strand Ranch Integrated Banking Project, with IRWD participating in Rosedale's Conjunctive Use Program through the Strand Ranch project. In 2010, IRWD purchased the Stockdale West Ranch property located west of the Strand Ranch. The Stockdale Project is being developed by Rosedale and IRWD to allow both agencies to utilize available storage in the San Joaquin Valley Groundwater Basin by constructing groundwater banking facilities, both for recharge and recovery, on their respective Stockdale properties. The Stockdale Project is located in western Kern County approximately six miles west of the City of Bakersfield. The purpose of the project is to provide dry year water supply reliability for IRWD's customers, as well as to integrate the capacities and facilities into Rosedale's Conjunctive Use Program.

In 2011, under a pilot project, IRWD constructed four recharge basins on the Stockdale West Ranch and a new 54-inch siphon under the Rosedale Intake Channel to allow recharge water to flow from Strand Ranch to Stockdale West. IRWD recently retained Thomas Harder & Company to prepare the design for three new groundwater extraction wells on the Stockdale West property. The Well Equipping and Conveyance Facilities Project will equip the new wells with pumps, instrumentation and related appurtenances, and construct conveyance facilities to either the Cross Valley Canal or the Rosedale Intake Channel. To expedite IRWD's ability to recover groundwater from Stockdale West, the project is scheduled to immediately follow the well drilling phase. In accordance with IRWD's Goals and Objectives for 2014, the Well Equipping and Conveyance Facilities Project aligns with the District's goal of enhancing water supply reliability.

Consultant Selection:

Staff received proposals from Kennedy/Jenks Consultants, Tetra Tech, and URS. GEI Consultants declined to submit due to inadequate staffing available to meet the project schedule. URS proposed a well-qualified team with significant experience in wellhead equipping design and demonstrated the ability to meet the demanding project schedule. A copy of the proposal ranking matrix is attached as Exhibit "A". URS's proposed design fee is \$188,280. Their total contract amount, including construction phase services, is \$225,785. URS has successfully completed projects for IRWD in the past, including design of the OPA Well-1 Wellhead Facilities and the Syphon Reservoir Interim Facilities. A copy of URS's scope of work and fee proposal is attached as Exhibit "B". Staff recommends that the Board authorize the General Manager to execute a Professional Services Agreement with URS since their design approach, schedule, and man-hours are consistent with the project goals.

Schedule:

Design and construction of the Stockdale West Wellhead Equipping and Conveyance Facilities Project is anticipated to proceed in accordance with the following milestone schedule:

- Final Basis of Design Memorandum and 60% Design Submittal August 4, 2014
- 100% Design Submittal September 2014
- Final Plans Approved October 2014
- Bid Opening November 2014
- Notice of Award December 2014
- Well Operational October 2015

FISCAL IMPACTS:

Project 11645 (3766) is included in the FY 2013-14 Capital Budget. Staff requests approval of an Expenditure Authorization as shown in the table below and in Exhibit "C".

Project No.	Current Budget	Addition <Reduction>	Total Budget	Existing EA	This EA Request	Total EA Request
11645 (3766)	\$5,432,900	\$0	\$5,432,900	\$347,800	\$272,600	\$620,400

ENVIRONMENTAL COMPLIANCE:

This project is subject to the California Environmental Quality Act (CEQA) and in conformance with the California Code of Regulations Title 14, Chapter 3, Article 7, IRWD is in the process of preparing an Environmental Impact Report.

Action Calendar: Stockdale West Wellhead Equipping and Conveyance Facilities Consultant Selection
May 27, 2014
Page 3

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on May 20, 2014.

RECOMMENDATION:

THAT THE BOARD APPROVE AN EXPENDITURE AUTHORIZATION IN THE AMOUNT OF \$272,600, AND AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH URS CORPORATION IN THE AMOUNT OF \$225,785 FOR ENGINEERING SERVICES FOR THE STOCKDALE WEST WELLHEAD EQUIPPING AND CONVEYANCE FACILITIES, PROJECT 11645 (3766).

LIST OF EXHIBITS:

- Exhibit "A" – Consultant Selection Matrix
- Exhibit "B" – URS's Scope of Work and Fee Proposal
- Exhibit "C" – Expenditure Authorization

EXHIBIT "A"

CONSULTANT SELECTION MATRIX

Stockdale West Wellhead Equipping and Conveyance Facilities									
Item	Description	Weights	GEI	Kennedy/Jenks		Tetra Tech	URS		
A	TECHNICAL APPROACH	40%	Declined to Submit						
1	Overall Project Understanding / Approach	40%		1	3	2			
2	Scope of Proposal	60%		2	3	1			
	<i>Weighted Score (Technical Approach)</i>			1.6	3.0	1.4			
B	QUALIFICATION AND EXPERIENCE	60%							
1	Firm/Team	20%		2	3	1			
2	Project Manager	40%		3	2	1			
				Pat Ostly	Steve Tedesco	Joseph Long			
3	Project Engineer - Mechanical/Pumps	20%		3	2	1			
				Brent Payne	Kara Buttacavoli	Bernard Pyska			
4	Project Engineer - Electrical	20%		3	1	2			
				Richard Brady & Associates	Mazen Kassar	Joe Moraes			
	<i>Weighted Score (Experience)</i>			2.8	2.0	1.2			
	COMBINED WEIGHTED SCORE			2.3	2.4	1.3			
	Ranking of Consultants			2	3	1			
C	SCOPE OF WORK								
TASK				Task Hours	FEE	Task Hours	FEE	Task Hours	FEE
1	Project Management			292	\$61,764	73	\$20,823	175	\$27,095
2	Basis of Design Memorandum			360	\$109,098	249	\$31,039	104	\$21,490
3	Final Design			768	\$166,868	2,112	\$217,173	584	\$119,695
4	Construction Phase Services		565	\$111,702	282	\$32,565	251	\$37,505	
	Optional Tasks			\$20,000		\$20,000		\$20,000	
	TOTAL ENGINEERING SERVICES FEE		1,985	\$469,432	2,716	\$321,600	1,114	\$225,785	
D	OTHER								
	Number of Drawings		35	43	43				
	Engineering Services Fee per Drawings		\$9,649	\$6,257	\$3,913				
	Joint Venture		None	None	None				
	Sub Consultants	Elec	Richard Brady & Associates	In-house	Moraes Pham & Associates				
		Struct	In-house	In-house	In-house				
		Geotech	Solte Engineering, Inc.	Kleinfelder Associates	In-house				
		Survey	Dee Jasper & Associates	Dee Jasper & Associates	Dee Jasper & Associates				
		Other	Dahl Consultants (Intake Design)	N/A	N/A				
	Exceptions taken to IRWD Std. Contract		None	None	None				
	Insurance (Professional & General Liability)		Yes	Yes	Yes				



1 SCOPE

1.1 PROJECT OVERVIEW

Irvine Ranch Water District (IRWD) has a partnership with the Rosedale Rio Bravo Water Storage District (Rosedale) in the ownership/operation of an existing water bank facility west of Bakersfield. Currently, IRWD/Rosedale operates the Strand Ranch Water Bank which consists of approximately 502 acres of constructed spreading grounds providing IRWD with the opportunity to store up to 50,000 ac-ft of water in the Kern County Regional Groundwater Basin which is part of the Rosedale/Rio Bravo Water Storage District. In July, 2012 the IRWD/Rosedale partnership commenced construction of the Stockdale West spreading grounds to expand the original water banking operations by adding approximately 300 acres to the overall complex.



The only water source for the Stockdale West Spreading Grounds is an existing siphon connected directly to the Strand Ranch Spreading Grounds. Under current operations, water is turned out of the Cross Valley Canal (CVC) at the east end of the Strand Ranch complex fills the surface storage of the basins. At the point when



Strand Ranch has reached surface storage capacity, waters are then directed into the siphon on the west end of Strand Ranch and start to fill the surface storage of the Stockdale West Spreading Grounds. Under this current operating scenario, the Strand Ranch and Stockdale West spreading grounds are filled in series. This condition limits the operational flexibility of the overall system limiting the volume of water that can be transferred through Strand Ranch into Stockdale West. Due to the current operational scenario, there are lost opportunities to capture water volume when water-take conditions have a short timeframe window.

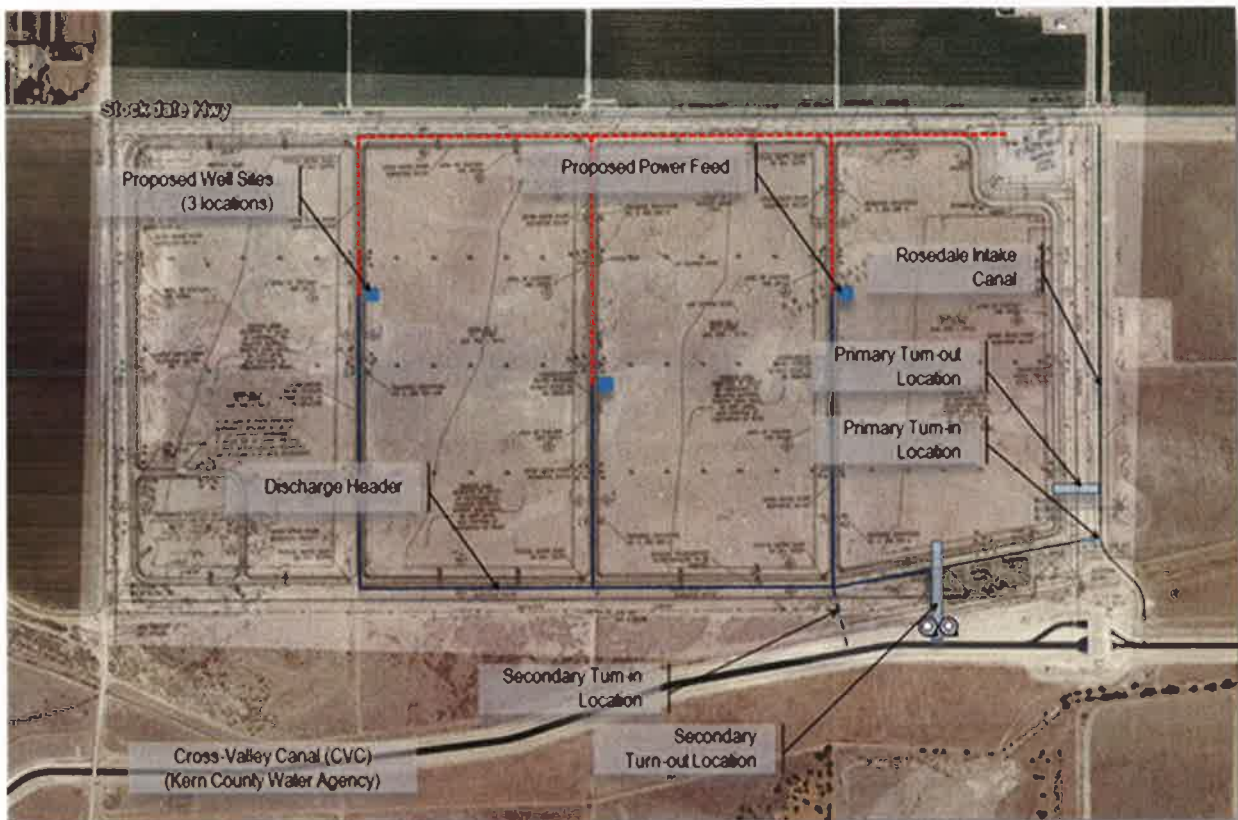
The proposed Stockdale West Wellhead Equipping Conveyance Facility project is intended to provide IRWD/Rosedale with additional operational flexibility. The proposed Stockdale West improvements will allow the District to operate the two spreading ground facilities independently for both water intake and extraction. It also provides for the opportunity to better maintain the facilities by decreasing the overall equipment load, provide for continuous groundwater recharge while one of the facilities is being re-



graded and prepared for the next water-take cycle and most importantly utilize wells with deeper casings to continue pumping during periods of low water table elevations.

In general, the proposed improvements for Stockdale West include the following:

- Three new wells inclusive of wellhead facilities and operational controls. The actual design of the wells, drilling and placement of the well casing are being prepared under a separate contract and not included in this scope of services.
- One turn-out structure into the Stockdale West facility. Two location options will be investigated during the Preliminary Design Report Phase of this project. The turn-out structures will be located either along the Rosedale Intake Canal or the CVC dependent on hydraulic constraints and ease of construction.
- One turn-in structure out of the Stockdale West facility into either the Rosedale Intake Canal or the CVC dependent on available capacity within the canal and ease of permitting.
- On-site piping conveyance from the proposed well sites to the ultimate turn-in facility.
- Power service through Pacific Gas & Electric. There is an existing switch station location at the northeast corner of the Stockdale West property. It is assumed that power will be provided from that location as long as there is capacity in the current equipment.





Our team will develop this project in a phased approach as indicated in the Request for Proposal (RFP), dated April 22, 2014 inclusive of Addendum No. 1 and No. 2. URS fully understand the priority of the project and is committed to meeting the overall project schedule as outlined in the RFP. The project phases consist of the following:

- Phase I – Preliminary Engineering / Basis of Design Memorandum
- Phase II – Final Engineering / Final Design
- Phase III – Construction Phase Services

Each phase of the project will be authorized under separate written Notice to Proceed provided by IRWD.

1.2 PROJECT DEVELOPMENT METHODOLOGY

The URS Team has reviewed all available existing documentation and has had discussions with personnel familiar with the project area including both Strand Ranch and Stockdale West. As such, our team has a full understanding of the needs and goals of this project. URS is also keenly aware of the priority project schedule and the need to complete the plans and specifications no later than September, 2014. Based on our understanding of the project and its priority status, URS has developed an approach to the project that provides for an expedited schedule and completion.

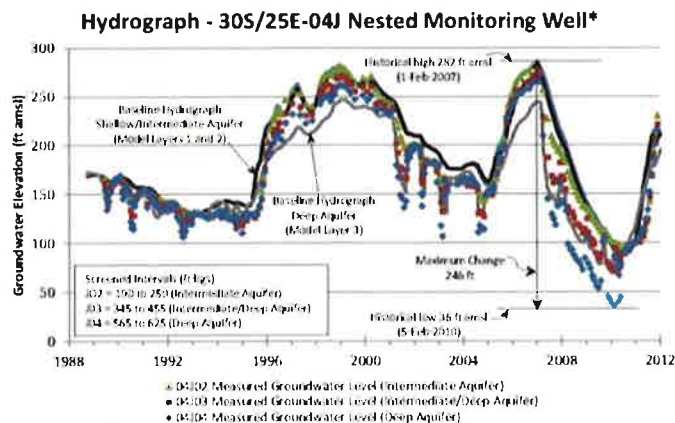
Preliminary Engineering / Basis of Design Memorandum

The development of the Preliminary Engineering/Basis of Design Memorandum will further refine and fully develop the project constraints, design criteria, well-site configurations, alignment of the conveyance system, pump and driver design; potential locations of turn-in and turn-out structures, power service and recommendations for either active or passive cooling of the MCC. The following is a description of the efforts during the preliminary design phase.

- Pump Curve and Operational Parameter of the Wellhead Facility – The URS Team will develop the operational parameters regarding the design of the three well-pumps. Our preliminary analysis will be based on groundwater information presented in the "Draft Proposed Stockdale Integrated Banking Project – Analysis of Potential Groundwater Level Changes from Recharge and Recovery at the Stockdale West and Stockdale East Facilities" dated October 31, 2013 by Thomas Harder & Company. We will re-evaluate the preliminary pump design upon the completion of the referenced report. Based on our review of the information presented in the above referenced report, it appears that the static groundwater elevations have the ability to fluctuate approximately 246

Rosedale-Rio Bravo Water Storage District
Irvine Ranch Water District

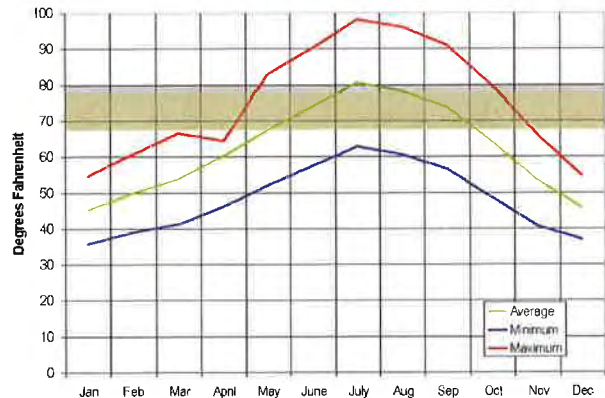
Figure 7
DRAFT





ft. with historical low being approximately 36 ft. amsl with a corresponding historical high of 282 ft. amsl. In addition, it appears that at low water conditions during maximum pumping the localized drawdown will be approximately 22 ft. It is anticipated that the total lift to the surface will be approximately 300 ft (inclusive of friction loss) requiring an estimated 300 hp motor. Several alternatives in flow modulation will be evaluated during the preliminary design phase that include Variable Frequency Drives (VFD) or flow control valves to ensure adequate well operation through a wide range of groundwater elevations.

- Power Service Planning – PG&E Coordination – Upon selection of the preliminary well pump curves, the URS Team will establish motor horsepower requirements and determine power loads for all proposed equipment in order to develop a schematic layout of electrical power supply system. URS will coordinate with the Pacific Gas & Electric Service Planner in Bakersfield for evaluation of the electrical service plan for the site. It is the intent of the URS Team to start the power service planning efforts as soon as possible to ensure the elimination of potential delays to the project.
- Motor Control Center (MCC) – During the Preliminary Design Phase, the URS Team will evaluate the potential of utilizing VFDs to accommodate the wide range of groundwater elevations controlling pumping scenarios. With elevated outside temperatures during the summer months in excess of 90 degrees, special consideration will be given to the design, location and environmental factors to avoid overheating of the MCC. URS will evaluate alternative cooling including passive ventilation, active cooling, water cooling through heat exchange and provide additional protection from the elements using a sun shade partially enclosed sun-shade structure.
- Well Site Development – The URS Team understands that Stockdale West will have three new well sites located in the recharge complex of the project. Each site will essentially have the same site layout and configuration that incorporates an electrical transformer, MCC, cellular RTU communications, security fencing, and the well head along with associated piping. The site configuration will be oriented in the northwest direction to take advantage of the natural environmental elements such as the prevailing winds, and minimize the southerly exposure of the sun to the MCC in order to reduce heat sink in the electrical cabinets. To further enhance the cooling effects of the prevailing winds, URS plans to provide a sunshade over the control equipment. Figure 1 and 2 provides a general layout of the proposed well site.
- Turn-out / Turn-in Structures – In order to enhance the URS Team, Dee Jaspar and Associates have joined the team to provide a local presence for coordination through both the Rosedale and Kern County Water Agency. During the preliminary design phase of the project, URS will review applicable locations for both turn-out and turn-in structures. We understand that IRWD and Rosedale want to review potential sites along both the Rosedale Intake Canal and the CVC. These efforts will require coordination with the responsible District/Agency to understand the project constraints and requirements in developing the proposed structures. To identify the most economical locations for the





proposed structures, canal hydraulic calculations will be prepared to evaluate flow capacities, consider canal shut down periods, permitting requirements, and operational considerations.

Site location considerations in the development of the Turn-out /Turn-in Structures will be continued operations of either the CVC and/or the Rosedale Intake Canal. URS fully understands the importance of these facilities in providing irrigation waters throughout the area and as such long-term shut downs are not acceptable. In consideration of the continued operations of these facilities, URS will review operation schedules of water deliveries, and provide design alternatives that minimize or eliminate disruption to on-going water deliveries. These considerations will include the development of interim facilities, the potential of utilizing water diversion structures, such as, coffer dams, set-back inlets or early construction of the canal lining and headwall structure implemented during a scheduled maintenance shut-down along either canal. In addition, to ensure available water supplies, prior to a canal shut down, IRWD/Rosedale may want to consider the use of the existing Stockdale West and Strand Ranch spreading grounds to provide temporary buffer storage during periods of construction along either canal system. The use of portable pumps to intake and discharge waters around the area of construction may prove to be a viable solution to provide continued operation of the overall canal system.

- Site Develop and General Civil Engineering – Although each well site will essentially have the same layout, and overall configuration, specific detailing may be required to address individual site access constraints. The site will also have chain-link security fencing with a man gate and larger swing gate(s) for vehicle access and well rehabilitation access.

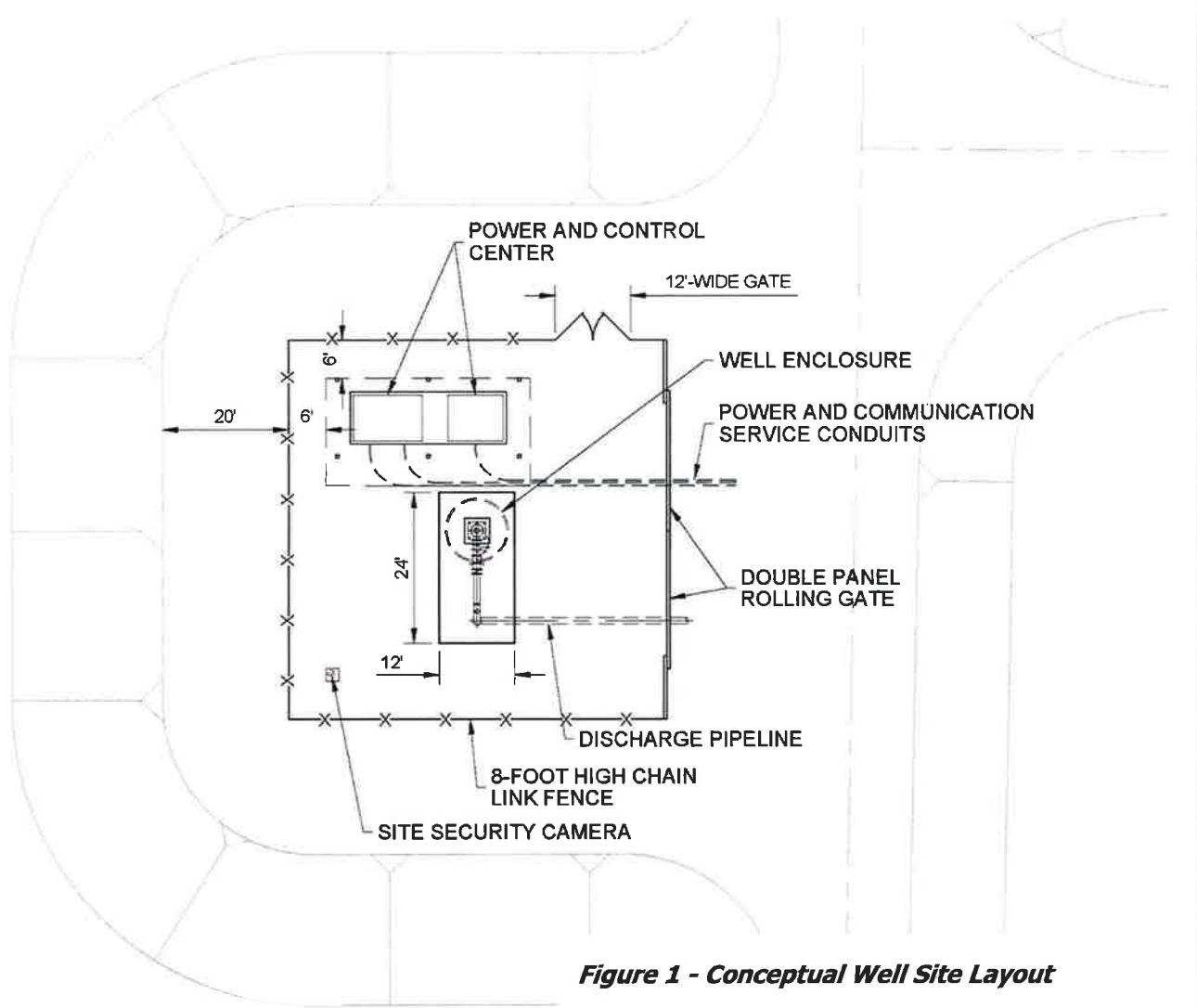


Figure 1 - Conceptual Well Site Layout

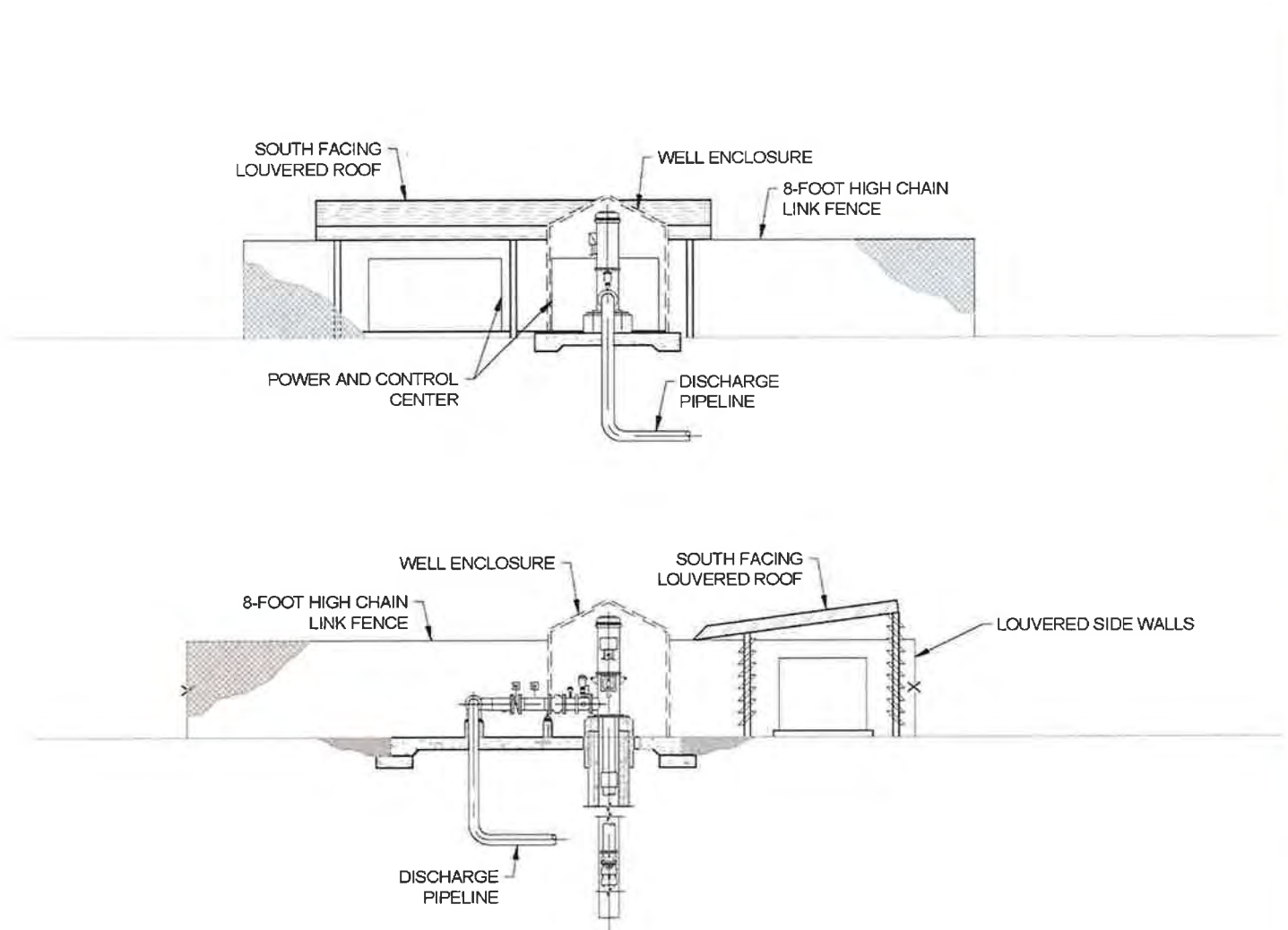


Figure 2 Conceptual Well Site Sections



1.3 SCOPE OF WORK

The scope of work for the engineering design and construction phase services to construct three wellhead facilities and conveyance system includes Project Management, preparation of a Basis of Design Memo, Final Design, and Construction Phase Services. The Project Manual (Specifications) will be prepared using the latest IRWD Construction Manual, front-end documents, and appendices from IRWD. Design work will be completed in accordance with requirements identified in IRWD's Design Project Manual and IRWD's Electrical and Instrumentation and Control Design Standards.

The Scope of Work and Budget will be stand-alone documents that will become the Exhibits to the Agreement between URS and IRWD. Efforts shall consist of, but not be limited to, the following tasks:

Task 1: Project Management

URS will conduct effective project management that adheres to the scope, schedule, and budget; provide efficient and frequent communication with IRWD and other project stakeholders; and implement the URS Quality Management System in order to provide effective quality assurance/quality control. The scope of services for Project Management includes the following items:

1. Preparation of Project Status Reports – URS will prepare weekly and monthly project status reports for IRWD's management team. The weekly status reports will consist of a brief (one to two paragraphs) email summarizing work activities completed the previous week along with look ahead activities planned for the upcoming week. Monthly status reports will provide more detail and will summarize work for the previous and upcoming month. The monthly reports will include an updated project schedule (Microsoft Project Gantt chart) and a summary of budget expenditures to date per task and budget remaining. In addition to the status reports, URS' management team will maintain strong lines of communication with IRWD via email and telephone. URS will copy IRWD staff on all emails to and from agencies and other project stakeholders.
 - a. Deliverables – *Weekly Project Update Memorandum via Email.*
 - b. Deliverables – *Monthly Detail Project Progress Memorandum including schedule updates, financial expenditures and monthly invoicing.*
2. Meetings and Workshops – URS will schedule and lead meetings with IRWD's team to ensure that all design, operational and maintenance issues are being addressed. URS will provide agendas of upcoming project coordination meetings five working days in advance of the meeting and prepare meeting minutes and action items within five working days subsequent to the meetings. These efforts are intended to ensure that all technical issues are being addressed and that the project remains on schedule. For the purposes of budgeting, the following meetings are anticipated for the project:



Meeting/Workshop	Description
General project management and design development meetings	Six (6) two-hour meetings
Coordination activities with jurisdictional agencies and project stakeholders (PG&E, Rosedale Water District, Kern County Water Authority, Kern Water Bank Authority, Lahanton RWQCB)	Four (2) two-hour meetings
Draft BOD Review Meeting	One (1) two-hour workshop
Present the 60% design and discuss IRWD's comments and outstanding item resolution	One (1) three-hour workshop
Present the 100% design and discuss IRWD's comments	One (1) two-hour workshop

a. *Deliverables* – Project Meeting Agendas, supporting meeting information, and appropriate presentation materials. All initial deliverable shall be forwarded to IRWD for review and approval prior to distribution to the meeting invitees.

3. **Quality Assurance/Quality Control** – URS will implement our Quality Management System (QMS) throughout the project to ensure consistent quality control for all project phases. The QMS system is based on the ISO 9001 standard and is required on all of our projects. Per this system, each project deliverable will undergo an independent technical review and a detail checking review, and construction documents will undergo a constructability review. The independent technical review will be provided by a technical expert in the related field, who has not been involved in preparation of the deliverable. The detail checking review focuses on a review of grammar, spelling, notes, construction call-outs, construction coordinates, plans and specification coordination, and discipline coordination. URS will provide IRWD with review comment disposition forms, redlines, redline back-checks, and QMS forms upon request.

a. *Deliverables* – At the request of IRWD, URS will provide to the District review check information based on our internal "Detailed Reviews" including redline review, issue resolution documentation, and external review documentation.

Task 2: Basis of Design

URS will prepare a Basis of Design (BOD) Memorandum that will develop preliminary engineering parameters and serve as the guiding document for the final design of the project. The BOD will review existing documentation prepared for both the Stockdale West and the Strand Ranch facilities including As-built Plans, Wellhead Pump site configurations and Controls; Conveyance Pipeline Alignments and Turn-in/Turn-out Structures to be located either on the CVC and/or the Rosedale Intake Canal. The BOD will develop information for the following topics:

- **Site Development** – General site development and configuration of well sites, equipment arrangement, power service points of connection and alignments; and pipeline alignments.
- **Turn-in/Turn-out Structures** – Turn-out Structures will be developed for placement on either the CVC or the Rosedale Intake Canal.
- **Geotechnical Review** – A geotechnical review of existing geotechnical reports available. The URS Team will develop recommendations for additional geotechnical explorations and site development geotechnical requirements.



- Power and Controls – Electrical power service and Controls will be developed based on site requirements, operating conditions and required operational controls.
- Environmental Documents Review – Environmental Review of existing documentation. URS will provide review of permitting requirements, and environmental constraints.
- Well Pump Design – Development of the well pump design including pump curves based on a wide range of operating groundwater elevations.
- Motor Control Center (MCC) – Development of the MCC will include the identification of required equipment and alternative methods of cooling.
- Preliminary Opinion of Probable Construction Costs – Development of a preliminary overall Opinion of Probable Construction Costs based on the BOD plan, profile and sections.

The BOD will consist of a series of Technical Memorandums for each subject being evaluated. A summary will be prepared for the overall BOD identifying recommendations and project requirements. The following describes in detail the contents of the proposed Basis of Design.

1. TM-1 - Turn-in to and Turn-out Alternatives – The URS Team will review the conceptual turn-in/turn-out options for managing flow associated with water banking operations. Turn-in/turn-out location options will be evaluated based on a hydraulic constraints, available properties, and canal operational constraints at the potential sites being evaluated along the CVC and/or the Rosedale Intake Canal. Incorporated into the alternatives analysis is the following:
 - a. Turn-in Alternatives – The URS Team will develop alternative Turn-in Structure locations based on preliminary well discharge piping routing. Alternatives will be developed based on direct discharging into the CVC and/or the Rosedale Intake Canal. URS will prepare hydraulic analyses for both the CVC and Rosedale Intake Canal within the subject canal reaches to evaluate existing and future canal capacities. Recommendations as to the desired alternative will be based on available access to the respective canals, canal hydraulics, operational constraints such as flow control and required head from the well discharges; and required permitting through both the Rosedale Water District and the Kern County Water Agency.
 - b. Turn-out Alternatives – The URS Team will develop alternative Turn-out Structure locations intended to water takes along either the CVC or the Rosedale Intake Canal. Three perspective locations will be evaluated for suitability and include the following locations:
 - i. CVC Afterbay Turnout – This location will also include an evaluation of the conveyance system required to deliver flows directly into the Stockdale West recharge facility. Two sub-alternatives will be reviewed that include utilizing the existing Strand Ranch/Stockdale siphon and a direct discharge into the Stockdale recharge facility.
 - ii. CVC Forebay Pumping Plant – This location will also include an evaluation of the required pumping horsepower required to deliver flows directly to the Stockdale West recharge facility.



- iii. Rosedale Intake Canal upstream of the CVC/Rosedale Check – This location will include a review of the canal hydraulics required to deliver flows to the Stockdale West recharge facility.

URS will meet with project stakeholder to discuss the proposed turn-out locations, and develop a consensus of the preferred alternative. Following those meetings, URS will fully develop the preferred alternative inclusive of developing operational parameters and final hydraulics along with right of way requirements and a refined opinion of probable construction costs. Required permits will be reviewed and identified as to extent of effort, time to obtain and construction mitigation requirements.

- 2. TM-2 - Pump Selection and Design – The URS Team will develop system curves for the proposed extraction well and associated conveyance system. The pump curves will be based on a wide range of operational conditions associated with rising and falling groundwater elevations. As noted in the report "*Draft Proposed Stockdale Integrated Banking Project – Analysis of Potential Groundwater Level Changes from Recharge and Recovery at the Stockdale West and Stockdale East Facilities*" dated October 31, 2013, groundwater elevations have the potential to change approximately 264 ft corresponding to a static lift of 290 ft. Allowing for drawdown (21 feet) and long-term well clogging, the total dynamic lift could be as much as 330 ft. Based on the system curves, the URS Team will look at the following operational scenarios:



- a. Constant Speed Pump w/Flow Regulating Valves – The constant speed pump will develop a range of pumping rates based on fluctuations of the groundwater elevations. In general, the well pump would be sized to meet the extreme low groundwater elevation at 2,800 gpm. As the groundwater elevation rises due to infiltration, it would be expected that at high groundwater elevations, the pumping rate would exceed 2,800 gpm of which the flow regulating valve would be used to control discharge flows into the respective canals.
 - b. VFD Controlled Pump – The VFD controlled pump would provide for a wide range of operational scenarios associated with fluctuations of groundwater elevations. But at high groundwater elevations, the VFD may not provide enough turn-down to maintain the required flow rate without providing additional stresses on pump bearing cases and impellers. The URS Team will evaluate the potential of utilizing a VFD controlled pump with regards to the required discharge rates and operational scenarios.
 - c. VFD Controlled Pump w/Flow Regulating Valves – The VFD/Flow Regulating Valves scenario may provide for the best overall control of the discharge due the potential wide range of groundwater elevations. URS will evaluation this scenario and determine if a combination pump control system is a feasible alternative.
3. TM-3 - Motor Control Center (MCC) – The URS Team understands the extreme environmental factors associated with Kern County and specifically the project site. Due to extreme temperatures in the area, cooling the MCC is critical to avoid over-heating. URS will investigate several options regarding cooling of the MCC including traditional air-conditioning, water-cooled, and passive ventilation. In addition to ensuring temperature control, URS will also develop a sun-shade structure that minimizes heat-sink and promotes convection cooling though the structure. All equipment enclosures will be protected from direct exposure to south eliminating
 4. TM-4 - Power Service from PG&E – Upon pump evaluation, and establishing the power requirements for the project, URS will work with our sub-consultant Moraes, Pham & Associates (MPA) and Dee Jaspar to start the power service planning through PG&E due to the length of time required in completing the power service plan. In addition, should communications be required MPA would also start coordinating with the telephone provider to complete the communications service plan. This activity will require the development of a site layout plan for the project area to be used as the basis of obtaining the power/communication service plans.
 5. TM-5 Geotechnical Review and Technical Memorandum – URS will develop a letter of recommendations regarding geotechnical design requirements based on information provided by IRWD. The letter of recommendations shall also include an opinion of additional geotechnical investigation as required.
 6. TM-6 General Site Development, Access, Security and Preliminary Opinion of Probable Construction Costs – The URS Team will prepare a general technical memorandum that presents general site development, security, installation of a Radio Terminal Unit (RTU), pipeline alignments, equipment layout and grading. Opinion of Probable Construction Costs will be developed for preliminary budgetary purposes.

URS shall summarize the alternatives, concerns and recommendations in the BOD and shall include a preliminary itemized engineer's probable construction cost estimate for each alternative identified.



URS will also evaluate and discuss the approach used in the Strand Ranch Recovery Facilities Project and why or why not that approach will work for the Stockdale West Wellhead Project.

- a. *Deliverables: Ten (10) copies of the Draft BOD memorandum shall be submitted to IRWD for review. URS will meet with the District to address review comments and comments will be incorporated into a final BOD Report that will be used as the basis of the final design. Upon incorporation of the review comments, URS shall submit to the District ten (10) copies of the final BOD memorandum and one (1) electronic copy in single, color PDF on a CD.*

Task 3: Final Design

Upon approval of the BOD memorandum, URS shall prepare all permit applications, coordinate permit acquisitions with the appropriate permitting agencies, prepare a Project Manual and complete set of reproducible construction drawings. During the final design phase, URS shall perform the following:

1. Project Manual – URS will prepare the Project Manual in standard IRWD format and complete the front end documents, bidding and contract sections of the project manual utilizing IRWD templates. URS shall identify any supplemental information that should be included to comply with IRWD’s general provisions and front end documents. URS will utilize IRWD’s standard technical specifications and identify and prepare supplemental sections as needed for the construction of the Stockdale West Wellhead Equipping and Conveyance Facilities. URS will include a detailed description of the allowable shutdown durations and sequencing associated with all connections and tie-ins to the existing channel(s).
2. Construction Plans – URS will prepare detailed construction drawings in the latest version of AutoCAD using NCS V4.0 layering standards. Construction plans will be prepared on IRWD standard 24-inch x 36-inch sheets with IRWD title block (provided by IRWD prior to design). URS and our subconsultants Moraes, Pham, and Associates (MPA) and Dee Jaspar and Associates, will prepare all required drawings. This will include general plans, civil plans, mechanical plans, structural plans, electrical plans, instrumentation/control plans, and associated details. URS will comply with the requirements of the preparation of the construction drawings outlined in the RFP in its entirety.

The final construction plans will be submitted to IRWD as AutoCAD files on a CD and as a single full-size PDF on a second CD. URS has prepared construction plans for IRWD on other projects and will utilize these as examples for reference. The following table presents our list of the construction drawings that are anticipated.

**Stockdale West Wellhead Equipping and Conveyance Facilities Project
Anticipated Construction Drawing List**

Sheet No.	Drawing No.	Sheet Title
1	G-1	Title Sheet
2	G-2	Location Maps, Vicinity Map, Sheet Index, Utilities and Contact Phone Numbers, Basis of Bearings, and Bench Marks
3	G-3	List of Abbreviations, Standard Symbols
4	G-4	General Notes, Construction Notes



Sheet No.	Drawing No.	Sheet Title
5	C-1	Well 1 Site Plan
6	C-2	Well 2 Site Plan
7	C-3	Well 3 Site Plan
8	C-4	Well Sites Civil Details
9	C-5	Pipeline Plan (Double Panel)
10	C-6	Pipeline Plan (Double Panel)
11	C-7	Pipeline Plan (Double Panel)
12	C-8	Pipeline Plan (Double Panel)
13	C-9	Pipeline Plan (Double Panel)
14	C-10	Pipeline Plan (Double Panel)
15	C-11	Pipeline Details 1
16	C-12	Pipeline Details 2
17	C-13	Canal Turn-In
18	C-14	Canal Turn-In
19	C-15	Canal Turn-out
20	C-16	Canal Turn-Out
21	M-1	Well Equipping Plan and Sections
22	M-2	Typical Well Details
23	M-3	Miscellaneous Details
24	S-1	General Structural Notes and Abbreviations
25	S-2	Well Enclosure Foundation and Roof Plans
26	S-3	Well Enclosure Sections and Details
27	S-4	Miscellaneous Sections and Details
28	S-5	Typical Concrete and Reinforcing Details
29	S-6	Canal Turn-Out Structural Details
30	S-7	Canal Turn-Out Structural Details
31	E-1	Electrical Standard Symbols/ Abbreviations
32	E-2	Electrical Site Plan
33	E-3	Single Line Diagram/Elevations
34	E-4	Well 1 Area Plan



Sheet No.	Drawing No.	Sheet Title
35	E-5	Well 2 Area Plan
36	E-6	Well 3 Area Plan
37	E-7	Controls
38	E-8	Schedules
39	E-9	Site Security
40	E-10	Electrical Details
41	I-1	P&ID Standard Symbols/Abbreviations
42	I-2	P&ID
43	I-3	P&ID Details

3. Permits and Coordination – Based on the permits identified during the BOD, URS and subconsultant Dee Jaspar & Associates will prepare and coordinate permit applications with the appropriate agencies to secure all permits. Copies of the completed permits will be included in the Appendix of the Project Manual. Depending on the location of the turn-ins and turn-outs to the channel(s), the permits and agencies that may require coordination include:
- PG&E – URS shall contact PG&E to secure the power plan for the three well sites. The power plan shall be included in the Appendix of the Project Manual.
 - City of Rosedale – Encroachment Permit for turn-in/turn-out location and operations.
 - Kern County Water Agency – Encroachment Permit for turn-in/turn-out location and operations.
 - Kern Bank Water Authority – Encroachment Permit for turn-in/turn-out location and operations.
 - Lahontan Regional Water Quality Control Board (RWQCB) – URS will prepare a SWPPP for the demolition and construction activities planned for the Stockdale West Wellhead Equipping and Conveyance Facilities following the requirements of the State of California General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (National Pollutant Discharge Elimination System [NPDES] General Permit No. CAS000002, State Water Resources Control Board Order No. 2009-0009-DWQ as amended by 2010-0014-DWQ and 2012-006-DWQ), referred to herein as the Construction General Permit or CGP. URS anticipates that the project will be a traditional construction project; therefore, Post-Construction Standards and a Long-Term Maintenance Plan may be required. The SWPPP will include the Risk Level Assessment and Site Map for use in registering the project through the Storm water Multi Application and Report Tracking System (SMARTS). The Final SWPPP will be signed by a URS Qualified SWPPP Developer (QSD) licensed in the State of California, and uploaded to SMARTS. One hard copy of the SWPPP will be provided for the job site, and an electronic copy in Adobe Acrobat (PDF) format will be submitted to IRWD via email and a copy will be included in the Appendix of the Project Manual.



IRWD will reimburse URS for the actual permit fees without surcharge. As requested in the RFP, URS has included an additional \$5,000 permit allowance for payment of permit fees without surcharge within our budget proposal submitted separately.

4. Utility Research – URS will review the topographic survey prepared by Dee Jaspar & Associates for the Stockdale West recharge facilities and the existing record drawings to identify the locations of the existing underground utilities and other relevant above ground physical features within the project vicinity. During the BOD validation phase we will collect and review existing utility as-built drawings in order to create a utility base map for final design.
5. Geotechnical Investigation – URS will review the geotechnical report prepared by Kleinfelder and determine if it is sufficient for the development of the final design. As requested in the RFP, URS has included an as-needed budget of \$10,000 for additional geotechnical investigating and reporting should it be necessary. URS shall obtain prior approval prior to proceeding with this additional work.
6. Topographic Survey – Upon selection of the turn-in/turn-out locations identified in the BOD, URS will determine if additional surveying is required. URS has retained the services of Dee Jaspar & Associates to conduct the additional surveying if it is necessary. As requested in the RFP, we have included a budget of \$10,000 for additional topographic surveying should it be necessary. We understand that this is for as-needed purposes only and shall not be used without the prior written approval of IRWD.
7. Electrical/Instrumentation – URS and our subconsultant Moraes, Pham & Associates (MPA) will collaborate with IRWD electrical staff to develop the instrumentation and controls requirements along with the electrical power requirements. URS/MPA will prepare for each well site a preliminary operational scheme that will include single line diagrams, and communication equipment that will include a cellular remote terminal unit (RTU) capable of monitoring well flow, well level, discharge pressure, motor failure and site intrusion. We assume that a radio path study is not required. As part of the control designs, MPA will incorporate a Quantum PLC based RTU, meeting the latest IRWD standards. RTU drawings and Bill of Materials will be prepared for IRWD staff review and acceptance. URS/MPA will prepare a PLC I/O and control alarm functions and trigger point's schedule. System operations and descriptions will be prepared for PLC programming by IRWD staff members.
8. Project Schedule - URS will maintain and update a detailed project schedule in Microsoft Project for both the design and construction phases of the Stockdale West Wellhead Equipping and Conveyance Facilities Project. URS shall submit the updates to IRWD on a monthly basis or at the completion of each major task whichever comes first. The project schedule will include permitting and coordination items, submittal milestones, critical path items, IRWD review times, shop drawing approvals, manufacturing, delivery, seasonal weather impacts, and affected construction projects.
9. Liquidated Damages Spreadsheet – URS will assist IRWD in calculating liquidated damages for the project, which would take effect if the Contractor exceeds the contract time. URS will fill out IRWD's standard liquidated damage calculation form.
10. Opinion of Probable Construction Cost – URS will provide IRWD with an engineer's estimate of probable construction costs for the alternatives in the BOD Memorandum, 60%, 100% and final design submittals. URS will incorporate and address comments from IRWD related to the cost estimate.



Final Design Deliverables – URS will provide final design deliverables pursuant to IRWD’s Design Project Manual. The final design deliverables will be as follows:

- a. *URS will submit ten (10) copies of the 60% submittal and one (1) CD containing the PDF files. Plans for the first submittal will include a draft set of drawings for the entire project. Site layouts, sections, and details will be provided for each component of the design such as civil, mechanical, electrical, and controls improvements. Basic conduit alignments, existing utilities and P&ID’s will be shown. The first submittal will also include all sections of the Project Manual with a draft of all necessary technical specifications and an engineer’s estimate of probable construction costs. The General Provisions will not be included in the Project Manual for this submittal.*
 - b. *URS will submit ten (10) copies of the 100% submittal and one (1) CD containing the PDF files. Plans for the second submittal will be a complete set and will clearly show layouts of each of the components of the design such as civil, mechanical, electrical, instrumentation, and detail sheets. URS will incorporate IRWD staff comments received on the construction plans and project manual on the 60% submittal and during the 60% plan review meeting. URS will update the engineer’s estimate of probable construction costs for this submittal. As requested in the RFP, the General Provisions will be included in the Project Manual for this submittal and a notebook with the design calculations for mechanical, civil, structural and electrical shall be submitted.*
 - c. *URS will submit ten (10) copies of the Final submittal and one (1) CD containing the AutoCAD files for the entire plan set, and one (1) CD containing a single PDF file of the entire Project Manual. This submittal will include a final set of construction drawings and a complete Project Manual. URS will incorporate comments received from IRWD staff on the 100% submittal and update the engineer’s estimate of probable construction costs.*
 - d. *URS will submit one (1) final stamped and signed reproducible set of construction plans on mylar and an original signed Project Manual for IRWD signatures. URS will attend IRWD’s meeting for signatures to explain the project and answer questions. A final engineer’s estimate of probable construction costs will be submitted with the final plans and Project Manual.*
11. Addenda Preparation and Pre-Bid Meeting – During the bidding period, URS will provide bidding support and assistance as it pertains to the contract documents and construction drawings. URS will consult with IRWD to address concerns or answer questions in support of administering the bid process. URS will prepare up to (3) addenda for prospective bidders, including revisions to the design plans and Project Manual. The addenda preparation activities shall include but not be limited to:
- a. Minor Plan Revisions – URS has budgeted twenty (20) hours of staff time to make minor plan revisions based on requests for clarifications and questions that come up during the bidding period.
 - b. Revisions to the Project Manual – URS has budgeted fifteen (15) hours of staff time to make minor revisions and/or additions to the Project Manual to address requests for clarifications and questions that come up during the bidding period.
 - c. Bidders Questions – URS has budgeted fifteen (15) hours to assist IRWD with responding to questions from prospective bidding contractors.



- d. Pre-Bid Meeting – URS shall prepare for and conduct one (1) pre-bid meeting and shall provide the agendas, exhibits, sign-in sheet and prepare minutes for the meeting. This task may include a site visit with bidding contractors and URS has budgeted eight (8) hours for this task.

Task 4: Construction Phase Services

URS will provide construction phase services including Project Management, submittal/shop drawing review, response to requests for information, and record drawings preparation. These services are detailed below.

1. Project Meetings – During the course of the project construction period, URS will conduct and attend five (5) construction progress meetings of two hours each at IRWD's Sand Canyon Headquarters. URS will prepare agendas and meeting minutes.
2. Contractor's Request for Information (RFI) – URS will respond to contractor's requests for information and as requested in the RFP, URS has budgeted for approximately forty (40) Requests for Information.
3. Minor Plan Revisions – URS has budgeted twenty (20) hours of staff time for minor plan revisions to the construction drawings.
4. Site Visits – URS has budgeted two (2) site visits of nine (9) hours each during the construction period.
5. Shop Drawing Reviews – As requested in the RFP, URS has budgeted for review of one hundred (100) shop drawing submittals, and fifty (50) resubmittals. Submittals will be reviewed for completeness and conformity with the contract plans and specifications. URS will deliver copies of the reviewed submittals to the IRWD Inspector, IRWD Project Manager, IRWD File and Contractor as required.
6. Record Drawings – At construction completion, URS will prepare record drawings on 24-inch by 36-inch mylars using the Contractor's and District Inspector's red lines. URS will deliver a final record drawing mylar set, including reissued signed mylars (as needed), AutoCAD files for the entire plan set, and a single color PDF electronic file on CD of the entire construction plan set.



May 12, 2014

Mr. Jacob Moeder, Project Manager
Irvine Ranch Water District, Engineering Department
15600 Sand Canyon Avenue
Irvine, CA 92618

Subject: Engineering Design Services for the Stockdale West Wellhead Equipping and Conveyance Facilities Project

Dear Mr. Moeder:

URS is pleased to submit this fee estimate to provide engineering design services for the above referenced project. Our proposal, including our qualifications and scope of work, was submitted under separate cover. To provide IRWD with the best service at the least cost, we have included sub-consultants on our team who have previously done work for IRWD and are familiar with the District and its expectations, goals and preferences. URS has provided a base fee that incorporates the services directly requested by the District.

Our fees for each phase of the contract include:

Task 1: Project Management:	\$27,095
Task 2: Basis of Design:	\$21,490
Task 3: Final Design:	\$114,695
Task 4: Construction Phase Services:	\$37,505
Permit Fees:	\$5,000
<u>Optional Tasks:</u>	<u>\$20,000</u>
Total Budget for Tasks 1 through 4:	\$225,785

Please see Table 1 for the detailed budget proposal, which includes fee schedule, labor hours, sub-consultant costs, direct costs, reproduction costs, and a breakdown of the fee by task and subtask. We have adhered to the requirements and budgeting stipulations in the RFP and have included a \$5,000 permit allowance without surcharge. Although we do not anticipate that it will be necessary, we have also provided, at the request of IRWD, a cost for optional geotechnical investigations and additional topographical surveying to be authorized separately, should it be necessary.

We look forward to the opportunity to work with the District on this project. Please do not hesitate to contact me at (714) 648-2857 or via e-mail at joseph.long@urs.com.

Sincerely,

URS Corporation Americas

Joseph Long, PE
Project Manager

Richard Hart, PE
Vice President/Office Manager

Estimated Cost Breakdown of Base Fees (Including Subconsultants)
Irvine Ranch Water District
Stockdale West Wellhead Equipping and Conveyance Facilities Project
May 12, 2014

Task No.	Task Description	URS Labor Hours							TOTAL HOURS	TOTAL URS BURDEN LABOR FEE	Moraes, Pham & Associates	Dee Jaspar & Associates	TOTAL	
		QA/QC	Project Manager	Deputy Project Manager	Sr. Project Engineer	Project Engineer	Designer	Staff Engineer						Administrative Services
		\$ 170.00	\$ 185.00	\$ 150.00	\$ 150.00	\$ 130.00	\$ 85.00	\$ 75.00						\$ 60.00
Task Group 1 - Project Management														
Task 1.1	Project Management		24	24					24	0	\$ -		\$ -	
Task 1.2	Meetings and Workshops		27	27		27				72	\$ 9,480.00		\$ 9,480.00	
Task 1.3	QA/QC	22								81	\$ 12,555.00	\$ 1,320.00	\$ 13,875.00	
	SUBTOTAL TASK 1	22	51	51	0	27	0	0	24	175	\$ 25,775.00	\$ 1,320.00	\$ -	\$ 27,095.00
Task Group 2 - Basis of Design Memorandum														
Task 2.1	Turn-in and Turn-out Evaluation		2	2		12	6			22	\$ 2,740.00		\$ 2,740.00	
Task 2.2	Power Service to Well Sites (Incl. PG&E Coord)		1	2		2				5	\$ 745.00	\$ 1,560.00	\$ 3,500.00	\$ 5,805.00
Task 2.3	Pump Design		1	2	2	16				21	\$ 2,865.00		\$ 2,865.00	
Task 2.4	MCC Cooling		2	2						4	\$ 670.00	\$ 800.00	\$ 1,470.00	
Task 2.5	Prepare Draft BOD Memorandum		2	8	2	12	16		2	42	\$ 4,910.00	\$ 2,400.00	\$ 7,310.00	
Task 2.6	Final BOD Memorandum		1	2	1	4	1		1	10	\$ 1,300.00		\$ 1,300.00	
	SUBTOTAL TASK 2	0	9	18	5	46	23	0	3	104	\$ 13,230.00	\$ 4,760.00	\$ 3,500.00	\$ 21,490.00
Task Group 3 - Final Design														
Task 3.1	Project Manual									0	\$ -		\$ -	
3.1a	60% Submittal	2	4	16	4	16			4	46	\$ 6,400.00		\$ 6,400.00	
3.2b	100% Submittal	2	2	12	8	4		4	2	32	\$ 4,650.00		\$ 4,650.00	
3.2c	Final Submittal	4	1	4		2			1	8	\$ 1,785.00		\$ 1,785.00	
Task 3.2	Construction Plans										\$ -		\$ -	
3.2a	60% Submittal	2	8	8	30	36	90	32		204	\$ 22,250.00	\$ 3,700.00	\$ 25,950.00	
3.2b	100% Submittal	2	4	8	16	20	32	16		96	\$ 11,200.00	\$ 2,600.00	\$ 13,800.00	
3.2c	Final Submittal	4	2	4	4	8	8			26	\$ 3,970.00		\$ 3,970.00	
Task 3.3	Permits and Coordination										\$ -		\$ -	
3.3a	PG&E			6		4	2			12	\$ 1,590.00	\$ 2,100.00	\$ 3,690.00	
3.3b	Encroachment Permits			4			1	4	1	10	\$ 1,045.00	\$ 3,000.00	\$ 4,045.00	
3.3c	NPDES Permit (SWPPP)			1			9	1		11	\$ 1,405.00		\$ 1,405.00	
Task 3.4	Utility Research			2				8		10	\$ 900.00		\$ 900.00	
Task 3.5	Geotechnical Review and Memorandum		1	1	2		14			18	\$ 1,825.00		\$ 1,825.00	
Task 3.6	Topographic Survey (included in optional tasks)			1			4			5	\$ 490.00		\$ 490.00	
Task 3.7	Electrical/Instrumentation		1	2						3	\$ 485.00	\$ 31,665.00	\$ 32,150.00	
Task 3.8	Project Schedule			4						4	\$ 600.00		\$ 600.00	
Task 3.9	Liquidated Damages Spreadsheet					4				4	\$ 520.00		\$ 520.00	
Task 3.10	Opinion of Probable Construction Costs		1	1		8		2		12	\$ 1,525.00		\$ 1,525.00	
Task 3.11	Final Design Deliverables										\$ -		\$ -	
3.11a	Ten Copies 60%, CD							2	1	3	\$ 210.00		\$ 210.00	
3.11b	Ten Copies 100%, CD							2	1	3	\$ 210.00		\$ 210.00	
3.11c	Mylars, CD							2	1	3	\$ 210.00		\$ 210.00	
Task 3.12	Addenda Preparation & Pre-Bid Meeting										\$ -		\$ -	
3.12a	Plan Revisions		1	4		3	12			20	\$ 2,195.00		\$ 2,195.00	
3.12b	Revisions to Project Manual			8		6			1	15	\$ 2,040.00		\$ 2,040.00	
3.12c	Bidder's Questions		2	4	2	7				15	\$ 2,180.00		\$ 2,180.00	
3.12d	Pre-Bid Meeting and Site Visit		11	11		2				24	\$ 3,945.00		\$ 3,945.00	
	SUBTOTAL TASK 3	16	38	101	66	129	164	72	12	584	\$ 71,630.00	\$ 31,665.00	\$ 11,400.00	\$ 114,695.00
Task Group 4 - Construction Phase Services														
Task 4.1	Project Meetings		10	10		10				30	\$ 4,650.00	\$ 495.00	\$ 5,145.00	
Task 4.2	Respond to Requests for Information (40)		4	12		20				36	\$ 5,140.00	\$ 930.00	\$ 6,070.00	
Task 4.3	Minor Plan Revisions			2		2	10			14	\$ 1,410.00	\$ 710.00	\$ 2,120.00	
Task 4.4	Site Visits (2)		9	9						18	\$ 3,015.00		\$ 3,015.00	
Task 4.5	Shop Drawing Review (100 Sub, 50 Resub)		8	16	8	64		32	2	130	\$ 15,920.00	\$ 1,860.00	\$ 17,780.00	
Task 4.6	Record Drawings		1	2		4	8	8		23	\$ 2,285.00	\$ 1,090.00	\$ 3,375.00	
	SUBTOTAL TASK 4	0	32	51	8	100	18	40	2	251	\$ 32,420.00	\$ 5,085.00	\$ -	\$ 37,505.00
Optional Tasks														
Task 3.5	Additional Geotechnical Investigation									0	\$ -		\$ -	
Task 3.6	Additional Topographical Surveying									0	\$ -	\$ 10,000.00	\$ 10,000.00	
	SUBTOTAL TASK 1	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ 10,000.00	\$ 20,000.00
	TOTAL	38	130	221	70	302	205	112	41	1,114	\$ 143,055.00	\$ 42,830.00	\$ 24,900.00	\$ 220,785.00
Other Direct Cost and Materials										Raw ODC Costs	ODC Admin Fee			
Permit Fees										\$ 5,000.00			\$ 5,000.00	
										\$ 5,000.00	\$ -	\$ -	\$ 5,000.00	
												Project Fee Total	\$ 225,785.00	

IRVINE RANCH WATER DISTRICT

EXHIBIT "C"

Expenditure Authorization

Project Name: STOCKDALE WEST RANCH JOINT BANKING PROJECT

EPMS Project No: 11645 **EA No:** 5

Oracle Project No: 3766

Project Manager: WEGHORST, PAUL

Project Engineer: WELCH, KELLY

Request Date: May 15, 2014

ID Split: Regional Water Split with LAWD (11/08)

Improvement District (ID) Allocations

ID No.	Allocation %	Source of Funds
112	3.6	BONDS YET TO BE SOLD**
113	4.4	BONDS YET TO BE SOLD**
115	6.2	CAPITAL FUND
121	12.8	BONDS YET TO BE SOLD**
130	10.0	BONDS YET TO BE SOLD**
135	16.2	PREVIOUSLY SOLD BONDS
140	3.5	BONDS YET TO BE SOLD**
150	26.1	BONDS YET TO BE SOLD**
153	2.9	BONDS YET TO BE SOLD**
154	1.2	BONDS YET TO BE SOLD**
161	6.7	BONDS YET TO BE SOLD**
182	2.5	BONDS YET TO BE SOLD**
184	2.3	BONDS YET TO BE SOLD**
186	.8	BONDS YET TO BE SOLD**
188	.8	BONDS YET TO BE SOLD**
Total	100.0%	

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$347,800
This Request:	\$272,600
Total EA Requests:	\$620,400
Previously Approved Budget:	\$5,432,900
Budget Adjustment Requested this EA:	\$0
Updated Budget:	\$5,432,900
Budget Remaining After This EA	\$4,812,500

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING - PLANNING IRWD	0	60,000	60,000	0	60,000	60,000	6/13	8/15
ENGINEERING - PLANNING OUTSIDE	0	33,000	33,000	0	33,000	33,000	3/12	6/14
ENGINEERING DESIGN - IRWD	25,000	0	25,000	0	25,000	25,000	7/13	6/16
ENGINEERING DESIGN - OUTSIDE	222,800	27,200	250,000	0	250,000	250,000	7/13	6/16
ENGINEERING - CA&I IRWD	0	0	0	0	75,000	75,000	3/14	6/16
ENGINEERING - CA&I OUTSIDE	0	0	0	0	300,000	300,000	3/14	6/16
CONSTRUCTION	0	0	0	0	4,000,000	4,000,000	3/14	6/17
LEGAL	0	30,000	30,000	0	30,000	30,000	3/12	6/16
ENGINEERING ENVIRONMENTAL-OUTS	0	166,000	166,000	0	166,000	166,000	3/12	6/14
Contingency - 10.00% Subtotal	\$24,800	\$31,600	\$56,400	\$0	\$493,900	\$493,900		
Subtotal (Direct Costs)	\$272,600	\$347,800	\$620,400	\$0	\$5,432,900	\$5,432,900		
Estimated G/A - 170.00% of direct labor*	\$42,500	\$102,000	\$144,500	\$0	\$272,000	\$272,000		
Total	\$315,100	\$449,800	\$764,900	\$0	\$5,704,900	\$5,704,900		
Direct Labor	\$25,000	\$60,000	\$85,000	\$0	\$160,000	\$160,000		

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

EA Originator: PKM J-M 5/15/14

Department Director: Kevin L. Burton 5/15/14

Finance: [Signature] 5/16/14

Board/General Manager: _____

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$5,819,000. The above-captioned project is further described in the attached staff report and additional documents, if any, which are hereby incorporated by reference. This declaration of official intent to reimburse costs of the above-captioned project is made under Treasury Regulation Section 1.150-2.

May 27, 2014

Prepared by: K. Welch *KW*

Submitted by: F. Sanchez / P. Weghorst *FW*

Approved by: Paul Cook *PC*

ACTION CALENDAR

EXCHANGE AGREEMENT WITH METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

SUMMARY:

In March 2014, staff received a request from Metropolitan Water District of Southern California (MWD) for banked water recovered from the District's Strand Ranch Integrated Banking Project (Strand Ranch). This water would be used by MWD in 2014 in exchange for MWD water returned to IRWD within ten years. Staff reviewed a draft agreement for the exchange with the Water Banking Committee in April and the Committee authorized staff to work with MWD to finalize the agreement to complete a one-for-one exchange of up to 4,000 acre-feet (AF) for the mutual benefit of both agencies. Staff and legal counsel have finalized the agreement for the proposed exchange with MWD. Staff requests that the Board authorize the General Manager to execute the Agreement for Exchange of Water Between the Metropolitan Water District of Southern California and Irvine Ranch Water District.

BACKGROUND:

As a result of the current drought conditions throughout the state, MWD proposed utilizing a portion of IRWD's banked State Water Project (SWP) and non-SWP water supplies this year. In March 2014, staff reviewed MWD's proposal with the Water Banking Committee. MWD's proposed borrowing of IRWD's available stored SWP supplies would occur under the Coordinated Operating, Water Storage, Exchange and Delivery Agreement (Coordinated Agreement). The Coordinated Agreement has a provision which limits MWD borrowing of IRWD's stored SWP supplies and therefore would require that IRWD agree to waive the provision. Based on discussions with the Committee, it was concluded that the SWP balance of 3,082 AF in the Strand Ranch was too low to allow MWD to borrow the stored SWP supplies this year.

MWD also proposed a one-for-one exchange which would be initiated with the recovery of portions of IRWD's banked non-SWP supplies in the Strand Ranch and the delivery of the water to Arvin Edison Water Storage District (AEWSD) during the summer months to help meet an existing MWD obligation. IRWD would have the flexibility to call on the water within 10 years. In March 2014, the Committee authorized staff to work with MWD to develop a one-for-one exchange agreement for up to 4,000 AF of non-SWP supplies and to return to the Committee and Board for approval.

MWD's legal counsel prepared an agreement which provides the terms for the one-for one exchange with MWD and staff and legal counsel proposed some modifications to the agreement. The proposed draft agreement was reviewed with the Committee on April 22, 2014, and the Committee authorized staff to finalize the agreement with MWD. Staff and legal counsel have worked with MWD to finalize the agreement which is attached as Exhibit "A".

Exchange Benefits:

IRWD would benefit from the proposed one-for-one exchange by eliminating any perceived exportability issues associated with the high-flow Kern River supplies and would result in the Kern River water being beneficially used in Kern County. The water returned to IRWD could either be wheeled or exchanged through the Coordinated Agreement. The exchange would also free up storage capacity in the Strand Ranch.

Exchange Agreement:

The terms of the Agreement are as follows:

- IRWD may deliver up to 4,000 AF of non-SWP water to MWD at the Strand Ranch Turnouts to the Cross Valley Canal (CVC);
- MWD will return an equal amount of water within 10 years at IRWD's discretion either to Reach 12E of the California Aqueduct or to the Strand Ranch Turnouts in the CVC; and
- MWD will pay all extraction, transportation and administrative costs to move the water from the Strand Ranch to MWD's final destination. IRWD would reimburse MWD for these costs if the water is returned at a location other than the Strand Ranch Turnouts at the CVC.

Staff recommends approval and execution of the Agreement subject to non-substantive changes. MWD indicates this exchange falls within existing Board Authority under the MWD Administrative Code 4207 and no further Board approval is needed.

FISCAL IMPACTS:

MWD will pay all costs of moving the exchange water from the Strand Ranch to MWD's final destination. IRWD will reimburse MWD for the upfront costs if the water is returned at a location other than the Strand Ranch Turnouts to the CVC.

ENVIRONMENTAL COMPLIANCE:

A Final Environmental Impact Report for the Strand Ranch Integrated Water Banking Project has been prepared, certified and the project approved in compliance with the 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.

COMMITTEE STATUS:

This item was reviewed by the Water Banking Committee on April 22, 2014.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE THE AGREEMENT FOR EXCHANGE OF WATER BETWEEN THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA AND IRVINE RANCH WATER DISTRICT FOR UP TO 4,000 ACRE-FEET OF BANKED WATER SUBJECT TO NON-SUBSTANTIVE CHANGES.

LIST OF EXHIBITS:

Exhibit "A" - Agreement for Exchange of Water Between the Metropolitan Water District of Southern California and Irvine Ranch Water District

EXHIBIT "A"

**MWD 5-7-2014DRAFT
AGREEMENT NO. ____**

AGREEMENT FOR EXCHANGE OF WATER

BETWEEN

**THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA**

AND

IRVINE RANCH WATER DISTRICT

DATED AS OF _____, 2014

**AGREEMENT FOR EXCHANGE OF WATER BETWEEN
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
AND IRVINE RANCH WATER DISTRICT**

THIS AGREEMENT FOR EXCHANGE OF WATER (“Agreement”) is made and entered into as of _____, by and between The Metropolitan Water District of Southern California (“Metropolitan”) and the Irvine Ranch Water District (“IRWD”). Metropolitan and IRWD are sometimes referred to collectively as the “Parties” and each, individually, as a “Party.” Capitalized terms used herein and not otherwise defined shall have the meanings given such terms pursuant to Paragraph 1.1.

RECITALS

A. IRWD is a California water district formed and existing under the California Water District Law, Sections 34000 *et seq.* of the California Water Code, for the purpose of providing water services and certain other services. IRWD’s powers and purposes include the acquisition within or outside the district in the State of California of all necessary property or rights in property necessary or proper for the production, storage, transmission and distribution of water for irrigation, domestic, industrial and municipal purposes and the power to contract with one or more public agencies in carrying out any of its powers.

B. Metropolitan is a public agency of the State of California incorporated under the Metropolitan Water District Act, Stats. 1969, ch. 209, as amended, codified at Section 109.1 *et seq.* of Appendix to the California Water Code, engaged in transporting, storing and distributing water in the counties of Los Angeles, Orange, Riverside, San Bernardino, San Diego and Ventura, within the State of California.

C. IRWD is within the service areas of Metropolitan and the Municipal Water District of Orange County (“MWDOC”) and is a member agency of MWDOC.

D. IRWD has entered into an agreement with the Rosedale-Rio Bravo Water Storage District (“RRBWSD”) for the development and operation of the Integrated Banking Project, a water banking project consisting of recharge, storage and recovery facilities that are located on IRWD property in Kern County known as “Strand Ranch” and on other property and integrated

into RRBWSD's water banking program, thereby allowing for the use of such recharge, storage and recovery facilities, together with available RRBWSD facilities, to provide IRWD with a means for acquiring, including through exchange, and regulating, through basin storage, water supplies to help meet its dry year and other water requirements. IRWD has in storage in its account in the Integrated Banking Project high-flow Kern River water that was previously acquired under an agreement with Buena Vista Water Storage District ("BVWSD") dated as of December 22, 2010, and that is exportable pursuant to pre-1914 water rights. IRWD desires to recover the quantity of up to 4,000 acre-feet of such water and exchange it for an equal amount of Metropolitan's water.

E. Pursuant to the terms of this Agreement, IRWD may deliver up to the quantity of water described in Recital D to Metropolitan at the location and by the date specified in Paragraph 2.1, and Metropolitan will return an equivalent amount of water within ten years to IRWD.

F. RRBWSD, as lead agency, prepared the "Strand Ranch Integrated Banking Project - Final Environment Impact Report," dated May 2008 (SCH #2007041080). IRWD, as a responsible agency, adopted said environmental impact report on May 27, 2008. RRBWSD also prepared Addendum No. 1 to the environmental impact report, which evaluated the impacts of proposed modifications to the project description and found the modifications would not change the conclusions of the previously-certified EIR. Such environmental documentation for the Integrated Banking Project evaluated the sources of water for banking in the Integrated Banking Project, such as high-flow Kern River water and other exportable supplies, and the recovery and delivery of the banked water for use in IRWD's service area. BVWSD, as lead agency with respect to its Water Management Program, including the BVWSD Water Exchange Project pursuant to which IRWD acquired the IRWD Water, certified a Final Environmental Impact Report on January 12, 2010.

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing recitals and the representations, warranties, covenants and agreements contained in this Agreement and for other good and valuable consideration, the receipt and sufficiency of which the Parties hereby acknowledge, the Parties hereby agree to the following terms and conditions of this Agreement.

I

DEFINITIONS AND RULES OF CONSTRUCTION

1.1 Definitions. As used in this Agreement, these terms, including any grammatical variations thereof, have the following meanings:

“Administrative Code” means the Metropolitan Water District Administrative Code.

“Banking Agreement” means the Agreement between RRBWSD and IRWD dated as of January 13, 2009, together with such amendments, supplements and exhibits thereto.

“Cross-Valley Canal” means the facility operated by Kern County Water Authority that bisects Strand Ranch and delivers water through the Tupman Turnout at Reach 13B of the California Aqueduct.

“Effective Date” means the date identified in the preamble clause of this Agreement.

“IRWD Water” means water IRWD has in storage in its account in the Integrated Banking Project that constitutes high-flow Kern River water that was previously acquired under an agreement with BVWSD dated as of December 22, 2010, that isn’t subject to IRWD’s obligation to return water to BVWSD and that is exportable pursuant to pre-1914 water rights.

“Integrated Banking Project” means the project described in the Banking Agreement and such other banking assets or components or interests as IRWD may determine to operate in conjunction with the Strand Ranch recharge, storage and recovery facilities.

“IRWD” means the Irvine Ranch Water District, the public agency referred to in Recital A.

“Metropolitan” means The Metropolitan Water District of Southern California, the public agency referred to in Recital B.

“Metropolitan Water” means water owned by Metropolitan.

“RRBWSD” means the Rosedale-Rio Bravo Water Storage District.

“Strand Ranch Turnouts” means the Strand Ranch North Turnout and the Strand

Ranch South Turnout to the Cross Valley Canal and any other delivery point by mutual agreement.

“Termination Date” means the ten year anniversary of the Effective Date.

1.2 Rules of Construction.

(a) Unless the context clearly requires otherwise:

- (i) Each of the plural and singular forms includes the other;
- (ii) “Shall,” “will,” “must,” and “agrees” are each mandatory;
- (iii) “May” is permissive;
- (iv) “Includes” and “including” are not limiting.

(b) Headings in the beginning of Articles, Paragraphs and subparagraphs are solely for the convenience of the Parties, are not a part of this Agreement and shall not be used in construing it.

(c) The masculine gender shall include the feminine and neuter genders and vice versa.

(d) The word “person” shall include individual, partnership, corporation, limited liability company, business trust, joint stock company, trust, unincorporated association, joint venture, governmental authority, water district and other entity of whatever nature, except either Metropolitan or IRWD or an officer or employee of them.

(e) Reference to any agreement (including this Agreement), document or instrument means such agreement, document or instrument as amended or modified and in effect from time to time in accordance with the terms thereof and, if applicable, the terms thereof.

(f) Except as specifically provided herein, reference to any law, statute, regulation or the like means such law as amended, modified, codified or reenacted, in whole or in part, and in effect from time to time, including any rules and regulations promulgated thereunder.

II

DELIVERY FROM IRWD TO METROPOLITAN

2.1 Delivery of IRWD Water. By December 31, 2014, IRWD may deliver up to 4,000 acre-feet of IRWD Water to Metropolitan at the Strand Ranch Turnout(s) chosen by IRWD or other mutually agreed locations, subject to Metropolitan's capability to accept the water. IRWD will cooperate with Metropolitan in scheduling the delivery. Metropolitan will pay the extraction, RRBWSD administrative charge, and transportation costs of moving the IRWD Water from Strand Ranch to the Strand Ranch Turnout(s) or to other mutually agreed locations. In the case where the Metropolitan Water is returned at a location other than the Strand Ranch Turnouts to the Cross Valley Canal, IRWD will reimburse Metropolitan the lesser of either: (a) the costs incurred by Metropolitan to extract and transport the IRWD Water to Metropolitan; or (b) the costs IRWD would incur to extract and transport an equivalent amount of water from Strand Ranch to Reach 12E of the California Aqueduct.

2.2 Payments. For payment obligations incurred under Paragraph 2.1, payments shall become delinquent sixty (60) days after receipt of the invoice under the terms of this Agreement. Data supporting the amounts invoiced shall be provided with the invoice. In addition to other amounts payable, delinquencies shall bear interest at the rate of one percent (1%) per month.

III

DELIVERY FROM METROPOLITAN TO IRWD

3.1 Delivery of Metropolitan Water. After 2014 but no later than the Termination Date, Metropolitan will, upon IRWD's request, return to IRWD an amount of Metropolitan Water equivalent to the amount of IRWD Water that IRWD delivered to Metropolitan pursuant to Paragraph 2.1 of this Agreement. Metropolitan will deliver the Metropolitan Water at IRWD's choice either to Reach 12E of the California Aqueduct subtracting any losses incurred in the Cross Valley Canal or to the Strand Ranch Turnout(s) including additional water to make up for any losses incurred in the Cross Valley Canal. Metropolitan will pay the transportation costs to return the Metropolitan Water to IRWD and will cooperate with IRWD and RRBWSD in scheduling delivery. If IRWD elects to take delivery of the Metropolitan Water at Reach 12E of the California Aqueduct, Metropolitan will enter into any necessary delivery agreements with the California Department of Water Resources. Metropolitan Water that Metropolitan delivers to

IRWD shall be considered State Water Project water.

3.2 Use Within IRWD's Service Area. Metropolitan Water delivered to IRWD pursuant to Paragraph 3.1 must be used within IRWD's service area.

IV

TERM

4.1 Commencement and Expiration. This Agreement shall become effective on the Effective Date and shall expire on the Termination Date, subject to Paragraph 4.3.

4.2 Force Majeure. If the performance, in whole or in part, of the obligations of the respective Parties, or any of them, to deliver water under this Agreement is prevented by acts or failures to act of any agency, court or other government authority (other than the Parties), or any other person; by natural disaster (such as earthquake, fire, drought or flood), contamination or outbreak of a water borne disease, war, strike, lockout, act of God, act of civil or military authority; by the operation of applicable law; or by any other cause beyond the control of the affected Party or Parties, whether similar to the causes specified herein or not, then, in any such circumstances, the obligation of the affected Party or Parties to deliver such water under this Agreement shall be suspended from the time and to the extent that the performance thereof is prevented, but reasonable diligence shall be observed by the affected Party or Parties, so far as it lies in their power, in performing such respective obligations in whole or in part under this Agreement. In the event such performance of any of the Parties under this Agreement is prevented as described above, then during the period of such prevention, performance by the non-affected Party under this Agreement shall be excused until such prevention ceases, at which time all the Parties shall become obligated to resume and continue performance of their respective obligations hereunder during the term of this Agreement. Notwithstanding the foregoing, no such prevention shall suspend or otherwise affect any payment obligations for delivery of water actually completed or any obligation of any Party to indemnify the other Parties pursuant to Paragraph 5.2, or shall extend the term of this Agreement beyond the Termination Date.

4.3 Survival. Notwithstanding the foregoing or anything to the contrary in this Agreement, the Parties' obligations under this Agreement survive expiration or termination of this Agreement until the Parties have fully performed their obligations under this Agreement.

ADDITIONAL COVENANTS AND CONDITIONS

5.1 Applicable Laws. This Agreement shall be governed by and construed in accordance with the laws of the State of California, without giving effect to conflict of laws provisions.

5.2 Indemnification.

(a) Metropolitan shall indemnify IRWD pursuant to Section 4502 of the Administrative Code against liability in connection with Metropolitan's delivery of Metropolitan Water to the same extent as is required with respect to water supplied by Metropolitan to a member public agency. Such indemnification shall be in addition to any indemnification rights available under applicable law and to any other remedy provided under this Agreement. Notwithstanding anything to the contrary in Section 4502 of the Administrative Code, Metropolitan's obligations pursuant to Section 4502 of the Administrative Code and this Paragraph 5.2(a) shall not be deemed to apply prior to IRWD's delivery of IRWD water to Metropolitan at the Strand Ranch Turnout(s) or other mutually agreed locations as provided in Paragraph 2.1 or after Metropolitan's delivery of Metropolitan Water to IRWD at either Reach 12E of the California Aqueduct or to the Strand Ranch Turnout(s) as provided in Paragraph 3.1, except to the extent of any claims caused by Metropolitan's negligence or willful misconduct.

(b) IRWD shall indemnify Metropolitan pursuant to Section 4502 of the Administrative Code against liability in connection with acts of IRWD prior to IRWD's delivery of IRWD Water to Metropolitan at the Strand Ranch Turnouts to the Cross Valley Canal or other mutually agreed locations as provided in Paragraph 2.1 and after Metropolitan's delivery of Metropolitan Water to IRWD at either Reach 12E of the California Aqueduct or to the Strand Ranch Turnouts(s) as provided in Paragraph 3.1 to the same extent as is required with respect to water supplied by Metropolitan to a member public agency. Such indemnification shall be in addition to any indemnification rights available under applicable law and to any other remedy provided under this Agreement. In addition to the liability indemnification provisions of the preceding sentence, IRWD shall defend, indemnify and hold harmless Metropolitan against claims and liabilities that arise from implementation of this Agreement, except to the extent of

any claims caused by Metropolitan's negligence or willful misconduct.

(c) Notwithstanding anything in this Agreement to the contrary, each Party agrees to proceed with reasonable diligence and use reasonable good faith efforts to jointly defend any lawsuit or administrative proceeding by any person other than the Parties challenging the legality, validity or enforceability of this Agreement.

5.3 No Third-Party Rights. This Agreement is made solely for the benefit of the Parties and their respective permitted successors and assigns (if any). Except for such a permitted successor or assign, no other person or entity may have or acquire any right by virtue of this Agreement.

5.4 Ambiguities. Each Party and its counsel have participated fully in the drafting, review and revision of this Agreement. No rule of construction to the effect that ambiguities are to be resolved against the drafting Party shall be applied in the interpretation of this Agreement or any amendments or modifications thereof.

5.5 Entire Agreement. This Agreement constitutes the final, complete and exclusive statement of the terms of the agreement among the Parties pertaining to the herein-described exchange of IRWD Water for Metropolitan Water during the term and supersedes all prior and contemporaneous understandings or agreements of the Parties related thereto. No Party has been induced to enter into this Agreement by, nor is any Party relying on, any representation or warranty outside those expressly set forth in this Agreement.

5.6 Counterparts. This Agreement may be executed in two or more counterparts, each of which, when executed and delivered, shall be an original and all of which together shall constitute one instrument, with the same force and effect as though all signatures appeared on a single document.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the date first written above.

[signatures on following page]

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Jeffrey Kightlinger
General Manager

APPROVED AS TO FORM:

Marcia L. Scully
General Counsel

By _____
TBD
Senior Deputy General Counsel

IRVINE RANCH WATER DISTRICT

Paul Cook
General Manager

APPROVED AS TO FORM:

Bowie, Arneson, Wiles & Giannone

By _____
Joan C. Arneson

May 27, 2014

Prepared by: Tony Mossbarger *TM*

Submitted by: Cheryl Clary *CC*

Approved by: Paul Cook *PC*

ACTION CALENDAR

ORACLE SOFTWARE LICENSES – ADDITIONAL ORACLE CUSTOMER CARE AND BILLING SOFTWARE LICENSES AND UNLIMITED LICENSE AGREEMENT FOR TECHNOLOGY LICENSES

SUMMARY:

In May 2011, the District signed an agreement with Oracle for licenses related to the future implementation of the Oracle Customer Care and Billing (CC&B) software system as well as an unlimited license agreement (ULA) for technology licenses required to run all Oracle software including the E Business Financials and CC&B systems. The ULA expires in November 2014.

The initial licenses, procured in May 2011 for CC&B, were based on the number of customer accounts projected at the time of the system implementation. The District's total numbers of accounts now exceed the number of original licenses purchased so additional licenses need to be procured. Staff has negotiated price discounts and recommends that the District enter into an agreement with Oracle to procure the additional CC&B licenses. In addition, staff recommends that the District sign a new ULA with Oracle for unlimited technology licenses covering June 2014 through November 2017. The cost for all of the licenses is \$1,527,324 and the cost for the first year annual maintenance and support agreement of all purchased Oracle applications for the new ULA is \$874,176 for a total cost of \$2,401,500.

Staff recommends that the Board authorize the General Manager to execute the agreement for the procurement of the application and technology licenses from Oracle.

BACKGROUND:

There are two major components of Oracle software licensing: Applications and Technology. Application licenses are generally purchased as part of the initial software implementation. Technology licenses are required for the underlying technology architecture used for databases, high availability, reliability, and diagnostics. To continue utilizing Oracle software without interruption, licenses must to be renewed before the current license agreements expire.

In May, 2011, the Board approved the procurement of the Oracle CC&B application software licenses and a ULA for technology licenses. The CC&B application software licenses were purchased at a significant discount. The technology licenses acquired under the ULA have provided the District with significant savings over the 42 month period when compared to buying the technology licenses individually.

Customer Care & Billing Application Licenses:

In 2011, the Oracle CC&B application licenses were purchased based on the number of customer accounts that utilize the system. The number of customer accounts that utilize the CC&B

software has increased since the original purchase and the District will need to procure additional licenses. After a lengthy negotiation process with Oracle, staff secured license discounts from Oracle which will expire at the end of May 2014 (prior to the fiscal year end of the Oracle Corporation). The total cost of the additional CC&B applications licenses is \$153,550 plus first-year maintenance support of \$33,781, for a total of \$187,331 (charged to the CC&B capital project). The maintenance and support beyond the implementation will be included in IRWD's annual operating budget.

Unlimited License Agreement (ULA) for Technology Licenses:

Original ULA:

IRWD entered in to the original ULA agreement in May 2011 for a 42-month term. At the end of the 42-months term (November 2014), the District has the full rights to all technology licenses are in use which would be set as the "baseline". Future support or license purchases would then be set based upon this new baseline. The District utilized the ULA for the technology licenses required for the Oracle eBusiness Suite Financial software and Oracle Customer Care and Billing software implementation projects.

ULA Extension:

With the original ULA term set to expire in November 2014, staff reviewed the new technology projects planned for the next three years. Those projects include:

- ID Consolidation
- Operational Data Warehouse non Oracle
- Enterprise Asset Management non Oracle
- Oracle Utility Customer Self Service
- Business Intelligence Upgrade

Although some of these projects may not utilize Oracle applications, a technology license is required if the information integrates with any Oracle application. Staff has worked with Oracle to identify the technology licenses required for these projects. The proposed ULA extension includes all of the technology products required for the projects planned over the next three years. In addition, staff negotiated annual maintenance and support price increase caps of no increase in years 1 – 2, and 2% in years 3 – 4 for all existing Oracle licenses and any new licenses placed in service under the ULA. Price holds for additional software product licenses were also negotiated. The cost of the ULA Extension is \$1,373,774 in license fees and \$302,230 in first year maintenance and support, for a total of \$1,676,004. This amount includes a credit for the original ULA for the remaining six months.

Staff recommends that the District execute an agreement with Oracle to purchase the additional CC&B application software and exercise its rights under the ULA to purchase the necessary technology licenses. Costs are detailed below:

Action Calendar – Oracle Software Licenses – Additional Oracle Customer Care and Billing Software Licenses and Unlimited License Agreement for Technology Licenses

May 27, 2014

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	Licenses	Annual Maintenance and Support	Total
Oracle Customer Care & Billing	\$ 153,550	\$ 33,781	\$ 187,331
Oracle Technology Unlimited License Agreement	\$ 1,373,774	\$ 302,230	\$ 1,676,004
Maintenance & Support for all Oracle Systems	\$ -	\$ 538,165	\$ 538,165
Total	\$ 1,527,324	\$ 874,176	\$ 2,401,500

FISCAL IMPACTS:

The total cost of Oracle licenses will be amortized over 42 months, as they are placed in service for each new technology project. The impact of the purchase on the FY 2014-15 Operating budget is summarized in the table below:

	Expenditure	FY 14-15 Expense
New Licenses	\$ 1,527,324	\$ 183,279
New Maintenance & Support	\$ 336,011	\$ 336,011
Existing Maintenance & Support (Tech & CC&B)	\$ 441,391	\$ 441,391
Existing Maintenance & Support (eBusiness Suite)	\$ 96,774	\$ 96,774
Sub Total		\$ <u>1,057,455</u>
Less FY 14-15 Capitalized		\$ 187,331
Total		\$ <u>870,124</u>
	FY 14-15 Budget – Oracle	\$ 535,000
	Amount Over Budget	\$ 335,124

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 the Finance and Personnel Committee due to the cancelation of the May 13, 2014 meeting.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE AGREEMENTS WITH ORACLE FOR THE PURCHASE OF ADDITIONAL CUSTOMER CARE AND BILLING APPLICATION LICENSES AND THE UNLIMITED LICENSE AGREEMENT FOR TECHNOLOGY LICENSES NOT TO EXCEED \$2,401,500.

Action Calendar – Oracle Software Licenses – Additional Oracle Customer Care and Billing
Software Licenses and Unlimited License Agreement for Technology Licenses

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LIST OF EXHIBITS:

Exhibit “A” – Oracle License Agreement

EXHIBIT A



AMENDMENT ONE TO THE ORDERING DOCUMENT

Your Name	Irvine Ranch Water District	Your Contact	Anthony Mossbarger
Your Location	15600 Sand Canyon Avenue	Phone Number	949-453-5480
	Irvine, CA 92618-3100	Email Address	mossbarg@irwd.com

ORACLE CONTRACT INFORMATION

This document (this "**Amendment One**") amends the ordering document dated May 26, 2011 (the "**ordering document**") between Irvine Ranch Water District ("**you**") and Oracle America, Inc. ("**Oracle**"). This Amendment One incorporates by reference the terms of the Oracle License and Services Agreement V121510, dated May 26, 2011, and all amendments and addenda thereto (the "**agreement**"). All terms used but not otherwise defined in this Amendment One shall have the meanings given to such terms in the agreement and the ordering document.

WHEREAS, subject to the terms and conditions of this Amendment One, the parties desire to amend the ordering document as follows:

- extend the Unlimited Deployment Period to end on November 30, 2017 (or such earlier period as set forth in section C.1.c of the ordering document), and
- amend the list of the Unlimited Deployment Programs and Quantity Based Programs as set forth in section 1.1 of this Amendment One, and

WHEREAS, the parties also desire to amend and update certain other provisions of the ordering document, as set forth below;

NOW THEREFORE, in consideration of the representations and agreements contained in this Amendment One and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree to amend the ordering document as follows:

1. CHANGES TO THE ORDERING DOCUMENT

The ordering document shall be amended as follows:

1.1 Delete the second and third paragraphs and the first table of section A of the ordering document and replace with the following, effective as of the effective date of this Amendment One:

"The programs designated below with an asterisk ("*") are for use on an unlimited number of Processors during the Unlimited Deployment Period (as defined in section C.1.a below), subject to the fixing requirements and all other terms and conditions of this ordering document (each such program being referred to as an "**Unlimited Deployment Program**" and collectively as the "**Unlimited Deployment Programs**").

The programs designated below with two (2) asterisks (**) are licensed for the quantity of the license type indicated in the table below for each such program, and may be used by you subject to the terms and conditions of this ordering document and the agreement (such programs being referred to herein collectively as the "**Quantity Based Programs**"). The Quantity Based Programs are not part of the Unlimited Deployment Programs or the Unlimited Deployment Right (as such term is defined in section C.1.a below).

All fees on this ordering document are in US Dollars.

Product Description / License Type	Quantity
* Data Integrator and Application Adapter for Data Integration - Processor Perpetual	Unlimited
* Informatica PowerCenter and PowerConnect Adapters - Processor Perpetual	Unlimited
* Oracle Business Intelligence Management Pack - Processor Perpetual	Unlimited
* Oracle Business Intelligence Foundation Suite - Processor Perpetual	Unlimited
* Database Lifecycle Management Pack - Processor Perpetual	Unlimited
* Advanced Security - Processor Perpetual	Unlimited
* Oracle Management Pack for Oracle GoldenGate - Processor Perpetual	Unlimited
* Oracle GoldenGate for Non Oracle Database - Processor Perpetual	Unlimited

Product Description / License Type	Quantity
* Oracle GoldenGate - Processor Perpetual	Unlimited
* Oracle Database Enterprise Edition - Processor Perpetual	Unlimited
* Diagnostics Pack - Processor Perpetual	Unlimited
* Real Application Clusters - Processor Perpetual	Unlimited
* Tuning Pack - Processor Perpetual	Unlimited
* WebLogic Suite - Processor Perpetual	Unlimited
* WebLogic Server Management Pack Enterprise Edition - Processor Perpetual	Unlimited
** Application Management Pack for Oracle Utilities - Processor Perpetual	66
** Oracle Utilities Customer Care and Billing Base for Residential Customers - 100 in Customer Count Perpetual	920
** Oracle Utilities Customer Care and Billing Base for Commercial & Industrial Customers - 100 in Customer Count Perpetual	160
** Oracle Utilities Customer Care and Billing Credit and Collections for Residential Customers - 100 in Customer Count Perpetual	920
** Oracle Utilities Customer Care and Billing Rating and Billing for Residential Customers - 100 in Customer Count Perpetual	920
** Oracle Utilities Customer Care and Billing Cashiering for Residential Customers - 100 in Customer Count Perpetual	920
** Oracle Utilities Customer Care and Billing Task Optimization Tools for Residential Customers - 100 in Customer Count Perpetual	920
** Oracle Utilities Customer Care and Billing Archiving for Residential Customers - 100 in Customer Count Perpetual	920
** Oracle Utilities Customer Care and Billing Rating and Billing for Commercial & Industrial Customers - 100 in Customer Count Perpetual	160
** Oracle Utilities Customer Care and Billing Cashiering for Commercial & Industrial Customers - 100 in Customer Count Perpetual	160
** Oracle Utilities Customer Care and Billing Task Optimization Tools for Commercial & Industrial Customers - 100 in Customer Count Perpetual	160
** Oracle Utilities Customer Care and Billing Archiving for Commercial & Industrial Customers - 100 in Customer Count Perpetual	160
** Oracle Utilities Customer Care and Billing Credit and Collections for Commercial & Industrial Customers - 100 in Customer Count Perpetual	160
** Oracle Utilities Customer Care and Billing Integration to Oracle E-Business Suite Financials for General Ledger and Accounts Payable – Processor Perpetual	2
** Micro Focus Net Express for CC&B (Mfr is Micro Focus International, Third Party Program) - Named Developer Perpetual	1
** Oracle Utilities Customer Care and Billing Extractors and Schema - 100 in Customer Count Perpetual	1,000
** Oracle Utilities Customer Analytics - Application User Perpetual	30
** Oracle Utilities Revenue Analytics - Application User Perpetual	30
** Oracle Utilities Advanced Spatial Revenue Analytics - Application User Perpetual	30
** Oracle Utilities Credit and Collection Analytics - Application User Perpetual	30
** Oracle Utilities Advanced Spatial Credit and Collection Analytics - Application User Perpetual	30

You acknowledge and agree that the programs listed in the table above represent all the programs that you are licensed for under the ordering document, as amended by this Amendment One.

1.2 Delete section B.2 (Limited Use) of the ordering document in its entirety and replace it with the following:

"All programs acquired under this ordering document (as amended by Amendment One) are limited use programs. These programs may be used solely for your ERP / Budgeting, Data Warehouse, Enterprise Asset Management, Operational Data Warehouse, Engineering Project Management, Project ID Consolidation, Customer Self-Service, and Utility Billing applications; no other use is permitted."

1.3 Sections B.3 (Commencement Date) and B.4.b (Fees, Invoicing, and Payment Obligation) of the ordering document shall not apply to this Amendment One. Please see section 2.3 below for the "Amendment One commencement date."

1.4 Delete section B.7 (Total Support Stream) of the ordering document in its entirety and replace it with the following:

"Total Support Stream

For purposes of this ordering document, the "Total Support Stream" shall mean: (i) the technical support for the Converted and Replaced Licenses as defined in section 5.2 (Converted and Replaced Licenses) of Amendment One to this ordering document; (ii) the net technical support fees specified as Net Technical Support Fees for New Licenses in section 2.1 (Fees, Invoicing and Payment Obligations) of Amendment One to this ordering document and (iii) technical support for any program licenses

purchased under section D.1 (Price Hold) of this ordering document and section 6 (Price Hold) of Amendment One to this ordering document.”

1.5 In the first sentence of the first paragraph of Section C.1.a (General) of the ordering document, delete “specified in section A, for forty-two (42) months from the effective date of this ordering document” and replace it with “specified in the ordering document, as amended by Amendment One, from the effective date of this ordering document until November 30, 2017”.

1.6 Delete the second paragraph of Section C.1.a (General) of the ordering document and replace with the following:

“On November 30, 2017 (or earlier as set forth below in section C.1.c), the Unlimited Deployment Period and the Unlimited Deployment Right shall terminate, and within thirty (30) days after such date (or earlier as set forth in section C.1.c) (the “**Certification Date**”), you and Oracle shall follow the certification process set forth in section C.1.b below.”

2. FEES, INVOICING AND PAYMENT OBLIGATIONS

2.1 You agree to pay Oracle the license and services fees set forth in the table below for the program licenses and twelve (12) months of technical support services acquired under this Amendment One.

	Net Fees
Net License Fees	1,527,324.00
Net Technical Support Fees for New Licenses	336,011.31
Net Technical Support Fees for Converted and Replaced Licenses	435,543.25
Back Support Fees	5,847.77
Total Fees	2,304,726.33

2.2 All fees under this Amendment One are non-cancelable and the sums paid nonrefundable, except as provided in the agreement. All fees on this Amendment One are in US Dollars.

2.3 All program licenses and the period of performance for all services acquired under this Amendment One are effective upon shipment of tangible media or upon the effective date of this Amendment One if shipment of tangible media is not required (such effective date being referred to as the “**Amendment One commencement date**”).

2.4 License fees are invoiced as of the Amendment One commencement date. Service fees are invoiced in arrears of the service performance; specifically, technical support fees are invoiced quarterly in arrears, except for back support fees which are invoiced as of the Amendment One commencement date.

2.5 The back support fee amount as of May 31, 2014 is reflected in section 2.1 above and represents an estimate of the back support fee. The actual back support fee will be processed as of the effective date of this Amendment One.

2.6 In addition to the fees listed in the table above, Oracle will invoice you for any applicable shipping charges or applicable taxes.

2.7 In entering into payment obligations under this Amendment One, you agree and acknowledge that you have not relied on the future availability of any program or updates. However, (a) if you order technical support for programs licensed under this Amendment One, the preceding sentence does not relieve Oracle of its obligation to provide such technical support under this Amendment One if-and-when available, in accordance with Oracle’s then current technical support policies, and (b) the preceding sentence does not change the rights granted to you for any program licensed under this Amendment One, per the terms of this Amendment One, the ordering document, and the agreement. The program licenses provided in this Amendment One are offered separately from any other proposal for consulting services you may receive or have received from Oracle and do not require you to purchase Oracle consulting services.

2.8 Provided that you comply with the delivery terms in the Delivery and Installation section, Oracle shall not invoice you for sales tax pursuant to California law based on the net license fees in section 2.1 for the programs delivered by electronic download; however, you agree to indemnify and hold Oracle harmless from and against any claims, losses, damages, costs, and expenses arising from imposition of sales tax based on the net license fees for the program licenses listed in section 1.1. Oracle shall invoice you and you are required to pay any applicable taxes related to the net support fees (specifically Software Update License & Support fees) for the ordered technical support services listed in section 2.1 above.

3. DELIVERY

3.1 Oracle has made available to you for electronic download at the electronic delivery web site located at the following Internet URL: <http://edelivery.oracle.com/exempt> the programs listed in section 1.1 above. Through the Internet URL, you can access and electronically download to your California location the current production release as of the effective date below of the software and related program documentation for each program listed in section 1.1 above. You shall have 60 days from the effective date of this Amendment One to complete the download of the software and program documentation. Please be advised that not all programs are available on all hardware/operating system combinations. For current program availability, please check the electronic delivery web site specified above.

Provided that you have continuously maintained technical support for the programs and in the licensed quantities listed above, Oracle will make available to you for electronic download the updates provided under technical support to the programs listed in section 1.1 above.

Should you require a replacement copy of the software or program documentation, such replacement copy shall also be delivered electronically. You shall not be entitled to any replacement copy in the form of tangible media for the software or the program documentation.

You acknowledge and agree that (a) you have not received any tangible media for the programs listed above as of the effective date, (b) any rights to receive tangible media granted under the agreement shall not be applicable to or provided for the programs listed in section 1.1 above or any updates for these programs and (c) you are solely responsible for ensuring that tangible media is not ordered by you from Oracle for the programs listed above or any updates to these programs.

You acknowledge and agree that you have requested to receive all updates provided by Oracle under Oracle's Technical Support Services via electronic delivery and you are solely responsible for ensuring that you do not order tangible media from Oracle for the programs which you receive via electronic delivery. In the event that you order updates for delivery via tangible media shipment (i.e., shipment of CD Pack(s)), sales taxes and interest may be due and you agree to reimburse Oracle for any applicable sales taxes and interest (interest rate used will be the applicable state's rate on sales tax underpayments) related to acquisition of such updates as specified in the agreement.

3.2 You further acknowledge that Oracle is under no further delivery obligation under this Amendment One, electronic download or otherwise and that you shall be responsible for installation of the software. You agree to execute and return the attached Certificate of Electronic Delivery simultaneously with the execution and return of this ordering document.

3.3 Notwithstanding the foregoing, you acknowledge and agree that you were previously delivered the programs listed in section A of the ordering document (as amended by this Amendment One) that are also included on the attached Converted and Replaced Licenses Exhibit; and therefore, with respect to such programs, Oracle has no delivery obligation under this Amendment One, electronic download or otherwise.

4. TECHNICAL SUPPORT

4.1 The total annual technical support fees due under the ordering document, as amended by this Amendment One, and specified in the table in section 2 above, include (a) the existing annual technical support fees for the Converted and Replaced Licenses (as defined in section 5.2 below and, referred to in the table in section 2 above as the "Net Technical Support Fees for Converted and Replaced Licenses"), and (b) new technical support fees for the program licenses specified in section A of the ordering document, as amended by this Amendment One (as referred to in the table in section 2 above as the "Net Technical Support Fees for New Licenses").

4.2 Software Update License & Support (or any successor technical support offering to Software Update License & Support, "SULS") acquired under section 2 of this Amendment One for the programs licensed under section A of the ordering document, as amended by this Amendment One, may be renewed annually. If you renew such technical support for the same number of licenses for the same programs as specified in section 1.1 above, then for the first and second renewal years (i.e., the renewal years commencing in 2015 and 2016) the annual fees for such technical support will not increase by more than 0% over the prior year's fees; and for the third and fourth renewal years (i.e., the renewal years commencing in 2017 and 2018) the annual fees for such technical support will not increase by more than 2% over the prior year's fees. In addition, for previously acquired licenses with CSI# 16881080 listed in the Previously Acquired Licenses Exhibit, if you renew the technical support these previously acquired licenses ("CSI# 16881080 SULS") for the same number of licenses for the same programs as specified in the Previously Acquired Licenses Exhibit, for the renewal years commencing in 2015 and 2016, the annual CSI# 16881080 SULS fees for such licenses will not increase by more than 0% over the prior year's fees; and for the renewal years commencing in 2017 and 2018, the annual CSI# 16881080 SULS fees for such licenses will not increase by more than 2% over the prior year's fees.

The technical support caps set forth in the preceding paragraph are granted provided that (a) with respect to each technical support renewal year that occurs during the Unlimited Deployment Period, you renew the Total Support Stream (as amended by this Amendment One) and CSI# 16881080 SULS, and (b) with respect to each technical support renewal year that occurs after the end of the Unlimited Deployment Period, you renew the total technical support due under the ordering document (as amended by this Amendment One) and CSI# 16881080 SULS for the same number of licenses for the same programs as the previous year. The parties agree that the technical support caps set forth in this section 4.2 replace the technical support caps set forth in section B.8 of the ordering document, which shall be deemed deleted and of no further force or effect.

Notwithstanding the technical support caps set forth in this section, any use of the program licenses in the Previously Acquired Licenses Exhibit, including but not limited to any updates and other materials provided or made available by Oracle under technical support to you, are subject to the terms and conditions set forth in the orders in which such program licenses were acquired by you.

4.3 For purposes of determining the fee for the first renewal year of the technical support specified in the table in section 2 above, the amount of the prior year's fees shall be equal to \$771,554.56.

4.4 Nothing in this Amendment One shall be deemed to relieve you of your obligation to maintain all of the components of the Total Support Stream (as amended by this Amendment One) in order to receive your Unlimited Deployment Right and technical support for

the program licenses acquired under the ordering document (as amended by this Amendment One). Notwithstanding anything to the contrary in this section, you acknowledge that the Total Support Stream and the technical support fees owed by you for the program licenses acquired under the ordering document (as amended by this Amendment One) may also increase as a result of the purchase of program licenses under section D.1 of the ordering document or section 6 below, and/or inclusion of any Omitted Licenses (as defined in section 5.3 below).

5. CONVERTED AND REPLACED LICENSES

5.1 General. The parties agree that the terms of this section shall be deemed to replace the terms of section E (Converted and Replaced Licenses) of the ordering document.

5.2 In connection with the rights granted under this Amendment One, all licenses of any versions or releases of the Unlimited Deployment Programs that were acquired by you, prior to the effective date of this Amendment One (including, without limitation, all of the programs licensed under section A of the ordering document prior to the effective date of this Amendment One) shall be converted and replaced as of the effective date of this Amendment One (the “**Converted and Replaced Licenses**”). The Converted and Replaced Licenses shall also include (i) all of the program licenses originally listed on the Converted and Replaced Licenses Exhibit attached to the ordering document and (ii) all of the programs licenses as Quantity Based Programs under section A of the ordering document prior to the effective date of this Amendment One. The Converted and Replaced Licenses are specified on the Converted and Replaced Licenses Exhibit attached to this Amendment One which the parties agree replaces the Converted and Replaced Licenses Exhibit attached to the ordering document. All references to Converted and Replaced Licenses in the ordering document shall be deemed to refer to the Converted and Replaced Licenses as defined in this paragraph. You will no longer have any right to use the Converted and Replaced Licenses, nor will you be permitted to reinstate the Converted and Replaced Licenses. You shall not be entitled to a credit or refund of license fees for the Converted and Replaced Licenses.

5.3 Omitted Licenses. The parties agree that they have worked in good faith to list on the Converted and Replaced Licenses Exhibit attached to this Amendment One all licenses of any versions or releases of the Unlimited Deployment Programs that were acquired by you prior to the effective date of this Amendment One including, without limitation, all of the program licenses acquired under section A of the ordering document prior to the effective date of this Amendment One and all of the program licenses originally listed on the Converted and Replaced Licenses Exhibit attached to the ordering document. However, the parties acknowledge that some of such licenses may have been inadvertently omitted (“**Omitted Licenses**”) from the Converted and Replaced Licenses Exhibit and that technical support fees associated with the Omitted Licenses were therefore excluded from the Total Support Stream. If at any time following the effective date of this Amendment One either you or Oracle discovers any Omitted Licenses, then the parties agree that: (i) you will continue to pay all technical support fees due in connection with the Omitted Licenses during the Unlimited Deployment Period, and (ii) the parties will amend the ordering document to add the Omitted Licenses to the Converted and Replaced Licenses Exhibit and to include the technical support fees associated with the Omitted Licenses in the Total Support Stream. You shall not be entitled to a refund or credit of any license and/or technical support fees as the result of any adjustment specified herein.

6. FUTURE PURCHASES

6.1 From the effective date of this Amendment One until the end of the Unlimited Deployment Period (as defined in section C.1.a of the ordering document), you may order licenses for the programs (and first year of SLS for the programs) at the appropriate license and support fees specified on the attached Price Hold Exhibit, provided (a) such programs are available in production release when ordered, and (b) you have continuously maintained the Total Support Stream.

6.2 Each order placed pursuant to this section must be (a) at least \$25,000 in net license fees for the programs listed in Table A of the Price Hold Exhibit, and (b) at least \$50,000 in net license fees for the programs listed in Table B of the Price Hold Exhibit. Your purchase on any such order of programs and/or license types that are not listed on the attached Price Hold Exhibit will also count towards this minimum purchase amount.

6.3 Each order placed pursuant to this section will specify Oracle’s delivery obligation. If the order specifies delivery, the programs will be delivered via electronic download. If electronic download is not possible or otherwise agreed to by the parties, tangible media will be delivered. Whenever the delivery of tangible media is required, you shall be charged for media and the shipping terms are FCA: Shipping Point, Pre-paid and Add.

6.4 All technical support for program licenses acquired under the terms of this section shall be deemed part of the Total Support Stream.

7. ORDER OF PRECEDENCE

7.1 The parties agree that the terms of this Amendment One will prevail in the event of any inconsistencies with any terms of the ordering document.

Other than the addition of the changes above, the terms and conditions of the ordering document remain unchanged and in full force and effect.

This quote is valid through May 31, 2014, and shall become binding upon execution by you and acceptance by Oracle.

IRVINE RANCH WATER DISTRICT

Oracle America, Inc.

Signature _____

Signature _____

Name _____

Name _____

Title _____

Title _____

Signature Date _____

Signature Date _____

Effective Date _____ (to be completed by Oracle)

PREVIOUSLY ACQUIRED LICENSES EXHIBIT

Previously Acquired License – Program Description & Metric	Quantity	CSI#
Oracle Financials - Nonstandard User Perpetual	9.2	16881080
Oracle Sourcing for Oracle Purchasing - Nonstandard User	9.2	16881080
Oracle iProcurement - Nonstandard User	9.2	16881080
Procurement & Spend Analytics, Fusion Edition - Nonstandard User	9.2	16881080
Oracle iSupplier Portal for Oracle Purchasing - Nonstandard User Perpetual	9.2	16881080
Oracle Purchasing - Nonstandard User Perpetual	9.2	16881080
Financial Analytics Fusion Edition - Nonstandard User	9.2	16881080
Oracle Internet Expenses - Nonstandard User	9.2	16881080
Oracle Project Management - Nonstandard User	9.2	16881080
Project Analytics - Nonstandard User	9.2	16881080
Oracle Services Procurement for Oracle Purchasing - Nonstandard User	9.2	16881080
Oracle Grants - Application User Perpetual	60	16881080
Oracle Inventory Management - Application User Perpetual	10	16881080
User Productivity Kit Standard - UPK Developer Perpetual	3	16881080
User Productivity Kit - UPK Employee Perpetual	400	16881080
Internet Developer Suite - Named User Plus Perpetual	1	16881080
Oracle Purchasing - Enterprise \$M in Revenue Perpetual	100	16881080
Oracle Project Management - Enterprise \$M in Revenue Perpetual	100	16881080
Oracle iProcurement - Enterprise \$M in Revenue Perpetual	100	16881080
Project Analytics - Enterprise \$M in Revenue Perpetual	100	16881080
Oracle Services Procurement for Oracle Purchasing - Enterprise \$M in Revenue Perpetual	100	16881080
Oracle iSupplier Portal for Oracle Purchasing - Enterprise \$M in Revenue Perpetual	100	16881080
Oracle Sourcing for Oracle Purchasing - Enterprise \$M in Revenue Perpetual	100	16881080
Oracle Human Resources - Enterprise Employee Perpetual	400	16881080
Oracle Self-Service Human Resources - Enterprise Employee Perpetual	400	16881080
Oracle Time and Labor - Enterprise Employee Perpetual	400	16881080
Oracle Advanced Benefits - Enterprise Employee Perpetual	400	16881080
Oracle Payroll - Enterprise Employee Perpetual	400	16881080
Human Resources Analytics Fusion Edition - Enterprise Employee Perpetual	400	16881080
Oracle iRecruitment - Enterprise Employee Perpetual	400	16881080
Financial Analytics Fusion Edition - Enterprise \$M in Revenue Perpetual	100	16881080
Oracle iLearning - Enterprise Trainee Perpetual	400	16881080
Oracle Internet Expenses - Enterprise \$M in Revenue Perpetual	100	16881080
Procurement & Spend Analytics, Fusion Edition - Enterprise \$M in Revenue Perpetual	100	16881080
Oracle Financials - Enterprise \$M in Revenue Perpetual	100	16881080

CONVERTED AND REPLACED LICENSES EXHIBIT

Programs listed on the Converted and Replaced Licenses Exhibit attached to the ordering document *prior* to the effective date of this Amendment One

Existing License	Existing Metric	Existing Quantity	CSI#
Oracle Database Enterprise Edition	Named User Plus	N/A	16881080
Oracle Database Enterprise Edition	Named User Plus	N/A	17724636
Oracle Database Enterprise Edition	Processor	N/A	17724636
Internet Application Server Enterprise Edition	Named User Plus	N/A	16881080
Internet Application Server Enterprise Edition	Named User Plus	N/A	17724636
Oracle Business Intelligence Suite Enterprise Edition Plus	Named User Plus	N/A	16881080
Oracle Business Intelligence Suite Enterprise Edition Plus	Processor	N/A	17724636
Informatica PowerCenter and PowerConnect Adapters	Processor	N/A	16881080
Real Application Clusters	Named User Plus	N/A	17724636
Real Application Clusters	Processor	N/A	17724636
Oracle Active Data Guard	Named User Plus	N/A	17724636
Diagnostics Pack	Named User Plus	N/A	17724636
Diagnostics Pack	Processor	N/A	17724636
Tuning Pack	Named User Plus	N/A	17724636
Tuning Pack	Processor	N/A	17724636
Configuration Management Pack for Oracle Database	Named User Plus	N/A	17724636
Configuration Management Pack for Oracle Database	Processor	N/A	17724636
Change Management Pack	Named User Plus	N/A	17724636
Change Management Pack	Processor	N/A	17724636
Provisioning and Patch Automation Pack for Database	Named User Plus	N/A	17724636
Provisioning and Patch Automation Pack for Database	Processor	N/A	17724636
Diagnostics Pack for Oracle Middleware	Named User Plus	N/A	17724636
Oracle Business Intelligence Management Pack	Processor	N/A	17724636

Other programs included in the Converted and Replaced Licenses pursuant to this Amendment One

Existing License	License Metric	Existing Quantity	CSI#
WebLogic Server Management Pack Enterprise Edition	PROCESSOR	N/A	18067946
Oracle Business Intelligence Management Pack	PROCESSOR	N/A	18067946
Configuration Management Pack for Oracle Database	PROCESSOR	N/A	18067946
Change Management Pack	PROCESSOR	N/A	18067946
Tuning Pack	PROCESSOR	N/A	18067946
Real Application Clusters	PROCESSOR	N/A	18067946
WebLogic Suite	PROCESSOR	N/A	18067946
Informatica PowerCenter and PowerConnect Adapters	PROCESSOR	N/A	18067946
Oracle Business Intelligence Suite Enterprise Edition Plus	PROCESSOR	N/A	18067946
Diagnostics Pack	PROCESSOR	N/A	18067946
Oracle Active Data Guard	PROCESSOR	N/A	18067946
Provisioning and Patch Automation Pack for Database	PROCESSOR	N/A	18067946
Oracle Database Enterprise Edition	PROCESSOR	N/A	18067946

Existing License	Existing Metric	Existing Quantity	CSI#
Oracle Utilities Customer Care and Billing Rating and Billing for Commercial & Industrial Customers	100 IN CUSTOMER COUNT	150	18067946
Oracle Utilities Customer Care and Billing Rating and Billing for Residential Customers	100 IN CUSTOMER COUNT	850	18067946
Oracle Utilities Customer Care and Billing Archiving for Residential Customers	100 IN CUSTOMER COUNT	850	18067946
Oracle Utilities Credit and Collection Analytics	APPLICATION USER	30	18067946

Oracle Utilities Customer Care and Billing Credit and Collections for Residential Customers	100 IN CUSTOMER COUNT	850	18067946
Oracle Utilities Revenue Analytics	APPLICATION USER	30	18067946
Micro Focus Net Express for CC&B (Mfr is Micro Focus International, Third Party Program)	NAMED DEVELOPER	1	18067946
Oracle Utilities Customer Care and Billing Task Optimization Tools for Commercial & Industrial Customers	100 IN CUSTOMER COUNT	150	18067946
Oracle Utilities Customer Care and Billing Credit and Collections for Commercial & Industrial Customers	100 IN CUSTOMER COUNT	150	18067946
Oracle Utilities Customer Care and Billing Base for Commercial & Industrial Customers	100 IN CUSTOMER COUNT	150	18067946
Oracle Utilities Customer Care and Billing Task Optimization Tools for Residential Customers	100 IN CUSTOMER COUNT	850	18067946
Oracle Utilities Customer Care and Billing Integration to Oracle E-Business Suite Financials for General Ledger and Accounts Payable	PROCESSOR	2	18067946
Oracle Utilities Customer Care and Billing Base for Residential Customers	100 IN CUSTOMER COUNT	850	18067946
Oracle Utilities Customer Care and Billing Extractors and Schema	100 IN CUSTOMER COUNT	1000	18067946
Oracle Utilities Advanced Spatial Revenue Analytics	APPLICATION USER	30	18067946
Oracle Utilities Customer Analytics	APPLICATION USER	30	18067946
Oracle Utilities Customer Care and Billing Cashiering for Commercial & Industrial Customers	100 IN CUSTOMER COUNT	150	18067946
Oracle Utilities Customer Care and Billing Cashiering for Residential Customers	100 IN CUSTOMER COUNT	850	18067946
Oracle Utilities Advanced Spatial Credit and Collection Analytics	APPLICATION USER	30	18067946
Oracle Utilities Customer Care and Billing Archiving for Commercial & Industrial Customers	100 IN CUSTOMER COUNT	150	18067946

PRICE HOLD EXHIBIT

Table A

Program & Metric / License Type	Quantity	Net License Fee	Net SULS Fee
Oracle Advanced Compression - Processor Perpetual	1	4,600.00	1,012.00
Oracle Advanced Compression - Named User Plus Perpetual	1	92.00	20.24
Data Masking Pack for Non Oracle Databases - Named User Plus Perpetual	1	92.00	20.24
Data Masking Pack for Non Oracle Databases - Processor Perpetual	1	4,600.00	1,012.00
Oracle Data Masking Pack - Named User Plus Perpetual	1	92.00	20.24
Oracle Data Masking Pack - Processor Perpetual	1	4,600.00	1,012.00
Cloud Management Pack for Oracle Database - Named User Plus Perpetual	1	40.00	8.80
Cloud Management Pack for Oracle Database - Processor Perpetual	1	2,000.00	440.00
SOA Suite for Oracle Middleware - Processor Perpetual	1	23,000.00	5,060.00
SOA Suite for Oracle Middleware - Named User Plus Perpetual	1	480.00	105.60
Oracle WebCenter Suite Plus - Named User Plus Perpetual	1	1,600.00	352.00
Oracle WebCenter Suite Plus - Processor Perpetual	1	80,000.00	17,600.00
Identity and Access Management Suite Plus - Non Employee User - External Perpetual	1	6.00	1.32
Identity and Access Management Suite Plus - Employee User Perpetual	1	44.00	9.68
Enterprise Single Sign-On Suite Plus - Named User Plus Perpetual	1	34.00	7.48
Unified Business Process Management Suite - Processor Perpetual	1	23,000.00	5,060.00
Unified Business Process Management Suite - Named User Plus Perpetual	1	460.00	101.20
Oracle Real Application Testing - Named User Plus Perpetual	1	92.00	20.24
Oracle Real Application Testing - Processor Perpetual	1	4,600.00	1,012.00
Oracle WebCenter Content - Named User Plus Perpetual	1	1,380.00	303.60
Oracle WebCenter Content - Processor Perpetual	1	69,000.00	15,180.00
Oracle Endeca Server - Processor Perpetual	1	20,000.00	4,400.00
Oracle Endeca Text Enrichment for English - Processor Perpetual	1	6,000.00	1,320.00
Oracle Endeca Text Enrichment with Sentiment Analytics for English - Processor Perpetual	1	18,000.00	3,960.00
Oracle Endeca Information Discovery Integrator - Processor Perpetual	1	9,200.00	2,024.00
Oracle Endeca Information Discovery Studio - Processor Perpetual	1	72,000.00	15,840.00
Oracle Endeca Information Discovery Studio - Named User Plus Perpetual	1	800.00	176.00
Oracle Endeca Information Discovery Integrator - Named User Plus Perpetual	1	276.00	60.72
Oracle Endeca Relationship Discovery - Processor Perpetual	1	18,000.00	3,960.00
Oracle Real User Experience Insight - Processor Perpetual	1	3,200.00	704.00
Real User Experience Insight - Named User Plus Perpetual	1	64.00	14.08

Table B

Program & Metric / License Type	Quantity	Net License Fee	Net SULS Fee
Application Management Pack for Oracle Utilities - Processor Perpetual	1	2,000.00	440.00
Oracle Utilities Customer Self Service Base for Residential Customers - 100 in Customer Count Perpetual	1	12.00	2.64
Oracle Utilities Customer Self Service Billing and Payment Management for Residential Customers - 100 in Customer Count Perpetual	1	6.00	1.32
Oracle Utilities Customer Self Service Customer Service Management for Residential Customer - 100 in Customer Count Perpetual	1	6.00	1.32
Oracle Utilities Customer Self Service Base for Commercial and Industrial Customers - 100 in Customer Count Perpetual	1	180.00	39.60
Oracle Utilities Customer Self Service Billing and Payment Management for Commercial and Industrial Customers - 100 in Customer Count Perpetual	1	90.00	19.80
Oracle Utilities Customer Self Service Customer Service Management for Commercial and Industrial Customers - 100 in Customer Count Perpetual	1	90.00	19.80
Oracle Utilities Customer Care and Billing Base for Residential Customers - 100 in Customer Count Perpetual	1	61.00	13.42
Oracle Utilities Customer Care and Billing Credit and Collections for Residential Customers - 100 in Customer Count Perpetual	1	30.50	6.71
Oracle Utilities Customer Care and Billing Rating and Billing for Residential Customers - 100 in Customer Count Perpetual	1	30.50	6.71

Oracle Utilities Customer Care and Billing Cashiering for Residential Customers - 100 in Customer Count Perpetual	1	7.63	1.68
Oracle Utilities Customer Care and Billing Task Optimization Tools for Residential Customers - 100 in Customer Count Perpetual	1	15.25	3.36
Oracle Utilities Customer Care and Billing Archiving for Residential Customers - 100 in Customer Count Perpetual	1	7.63	1.68
Oracle Utilities Customer Care and Billing Base for Commercial & Industrial Customers - 100 in Customer Count Perpetual	1	915.00	201.30
Oracle Utilities Customer Care and Billing Rating and Billing for Commercial & Industrial Customers - 100 in Customer Count Perpetual	1	457.50	100.65
Oracle Utilities Customer Care and Billing Credit and Collections for Commercial & Industrial Customers - 100 in Customer Count Perpetual	1	457.50	100.65
Oracle Utilities Customer Care and Billing Cashiering for Commercial & Industrial Customers - 100 in Customer Count Perpetual	1	114.38	25.16
Oracle Utilities Customer Care and Billing Task Optimization Tools for Commercial & Industrial Customers - 100 in Customer Count Perpetual	1	228.75	50.33
Oracle Utilities Customer Care and Billing Archiving for Commercial & Industrial Customers - 100 in Customer Count Perpetual	1	114.38	25.16

CERTIFICATE OF ELECTRONIC DELIVERY

This Certificate of Electronic Delivery is executed as of the effective date set forth below by **Irvine Ranch Water District** ("you") and relates to the electronic delivery of certain software programs provided by Oracle America, Inc. ("Oracle"). This Certificate of Electronic Delivery shall be governed by the terms of the Oracle License and Services Agreement (OLSA_V121510_US) between you and Oracle dated May 26, 2011 (the "agreement").

As of the date of this Certificate of Electronic Delivery, you agree that Oracle has provided you with an Internet URL through which you can download all the programs provided in the ordering document between Oracle and you dated _____ [to be completed by Oracle] (the "ordering document"). You will have 60 days from the effective date of the ordering document to complete your download of the programs provided.

You agree that Oracle has completed all of the delivery responsibilities required by the ordering document and the agreement and no additional shipment of the programs on tangible media (CD's, Disks, Tapes, etc.) shall be provided or is required.

The Effective Date of this Certificate of Electronic Delivery is _____. [to be completed by Oracle]

Irvine Ranch Water District

Signature: _____

Name: _____

Title: _____

May 27, 2014

Prepared by: C. Compton

Submitted by: P. Weghorst *PW*

Approved by: Paul Cook *Paul Cook*

ACTION CALENDAR

PROPOSED IRWD STORMWATER AND DRY WEATHER RUNOFF MANAGEMENT AND CAPTURE POLICY PRINCIPLES

SUMMARY:

Irvine Ranch Water District policy position papers are reviewed periodically to determine if the positions are still valid, need to be revised or if new papers should be written on different issues. Based on the discussions taking place in Sacramento and around the state regarding ways to improve California's water supply through stormwater and dry weather runoff capture and use, staff is recommending that the Board adopt a policy principles paper on stormwater and dry weather runoff management and capture.

BACKGROUND:

In 2004, IRWD began producing policy "white papers" on topics of particular interest to the District. Because of IRWD's standing in the water industry, the opinion of the District is regularly solicited on issues of vital interest to the industry and the community. In order to keep these position papers current and usable for explaining the District's position, staff occasionally recommends that the Board review the papers and when appropriate, incorporate revisions or adopt new papers. The proposed IRWD Stormwater and Dry Weather Runoff Management and Capture Policy Principles paper is attached as Exhibit "A".

As California faces another drought, policy discussions throughout the state have again turned to identifying new ways to promote the planning, investment and development of new water resources. Achieving multi-benefit and sustainable solutions to California's water supply requires that the water community evaluate stormwater and dry weather runoff management and capture as one method to enhancing water quality and water supply within the state.

The discussion surrounding stormwater and dry weather runoff capture and use at the state level has been accelerated by SB 985, authored by Senator Fran Pavley (D-Calabasas). SB 985 would require the development of stormwater resources plans that identify and prioritize stormwater and dry weather runoff capture projects. It would also require that the State Water Resources Control Board establish a policy for compliance with the plan requirement, and would make compliance a requirement for receiving grants for stormwater and dry weather runoff capture projects from bond funds.

Given that discussions concerning stormwater and dry weather runoff capture and use are underway, staff is proposing that the Board adopt a policy principles paper on stormwater and dry weather runoff management and capture to guide the District's advocacy efforts.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

None.

COMMITTEE STATUS:

This item was reviewed by the Water Resources Policy and communications Committee on May 21, 2014.

RECOMMENDATION:

That the Board approve the Stormwater and Dry Weather Runoff Management and Capture Policy Principles.

LIST OF EXHIBITS:

Exhibit "A" – IRWD Stormwater and Dry Weather Runoff Management and Capture Policy Principles

EXHIBIT “A”

PROPOSED IRWD STORMWATER AND DRY WEATHER RUNOFF MANAGEMENT AND CAPTURE POLICY PRINCIPLES MAY 21, 2014

ISSUE SUMMARY:

As California faces another drought, policy discussions throughout the state have again turned to identifying new ways to promote the planning, investment and development of new water resources. Achieving multi-benefit and sustainable solutions for California’s water supply issues require that the water community evaluate stormwater and dry weather runoff management and capture as one method to enhancing water quality and water supplies within the state.

Historically, California’s stormwater and dry weather runoff management have been designed to capture and convey water away from people and property. As a result, stormwater and dry weather runoff have traditionally been underutilized resources which are too often viewed only as a source of flooding or nuisance flows that needs to be disposed of instead of as a potential water source. While this objective remains critical, the management of these flows must be adapted to include capturing this water for beneficial uses.

As a leader in state and federal water resources public policy and governance, the Irvine Ranch Water District (IRWD) promotes policy initiatives that allow the District, along with other water purveyors in California, to enhance the quality and reliability of local water supplies throughout the state. As a means of providing input into the discussions surrounding stormwater and dry weather runoff management and capture in California, and in order to guide the District’s advocacy efforts related to these discussions, the following policy principles have been adopted by the IRWD Board of Directors.

POLICY PRINCIPLES:

- Urban water is regulated as a waste and is comprised of both stormwater and non-stormwater. California policy should be amended to treat stormwater and dry weather runoff as a resource wherein flood protection, water quality, and water supply improvements are complementary goals.
- Regional, watershed-specific stormwater and dry weather runoff planning efforts that engage key stakeholders in the planning process, and allow for consideration of local factors that may impact the appropriateness of stormwater and dry weather runoff capture, infiltration and use within a region should be encouraged.
- Stormwater and dry weather runoff capture, use and recharge of groundwater should be encouraged where appropriate and cost effective.
 - Factors such as pollutant loading, local hydrology and geology, land use conditions, environmental impacts, water quality effects and the amounts and variability of precipitation and runoff should be considered in determining the appropriateness of a stormwater and dry weather runoff capture and use projects.

IRWD Policy Principles: Stormwater and Dry Weather Runoff Management and Capture
May 21, 2014

- Stormwater and dry weather runoff capture, use and recharge projects should not be pursued where the project may impact ongoing pollution clean-up efforts or where the risk of spreading underground contaminants is present.
- Stormwater and dry weather runoff capture, use and recharge projects should be implemented only when there is no impact to existing water rights.
- Low-impact development (LID) standards should be implemented where site appropriate and should be balanced with other treatment options such as regional natural treatment systems. LID standards should not be encouraged where they would exacerbate pollution clean-up efforts, where there is a risk of spreading contaminants, where development would occur over bedrock, where infiltration would result in perched water, or where they would exacerbate the challenges associated with high levels of naturally occurring constituents such as selenium.
- Stormwater and dry weather runoff management and capture planning should be done regionally and not on a parcel-by-parcel basis. Regional boards should move away from parcel-by-parcel water quality requirements, and focus on regional compliance in order to encourage large-scale regional stormwater and dry weather runoff capture, retention, diversion, use and recharge.
- State policy should encourage and prioritize stormwater and dry weather runoff management and capture projects which seek to obtain multiple public benefits. Stormwater and dry weather runoff capture projects should be coordinated with habitat, recreation, transportation and other infrastructure improvements to ensure that cost effective solutions are optimized.
 - State agencies should be directed to develop streamlined environmental review and permitting requirements which would accelerate the development and construction of regional stormwater and dry weather runoff capture and use projects. The processes for obtaining a Streambed Alteration Agreement should be examined to ensure that the process does not discourage stormwater and dry weather runoff capture projects.
 - The State should work with the appropriate federal agencies to streamline federal permit requirements to accelerate the development and construction of stormwater and dry weather runoff capture and use projects.
 - In order to encourage stormwater and dry weather runoff capture, use and recharge projects, which also enhance habitat and other environmental resources, State law should clearly provide that maintenance of stormwater and runoff capture facilities is exempt from the California Environmental Quality Act, additional environmental review and additional permitting and mitigation requirements.
 - MS4 water quality permits should consider broader public benefits in order to allow for multi-benefit projects and not only water quality goals. Language should be added to State law to encourage regulatory incentives for stormwater and dry weather runoff capture, infiltration and use to facilitate the application of resource towards these projects.

IRWD Policy Principles: Stormwater and Dry Weather Runoff Management and Capture

May 21, 2014

- State law should take a “no penalty” approach to overflows from stormwater and dry weather runoff impoundments that release water into the same watershed in which the water was captured.
- State water policy should encourage and recognize wetland treatment processes in removing contaminants in stormwater and dry weather runoff. Recognition could come in the form of offset credits for upstream discharges.
- *Griffiths v. Parajo Water District* should be codified to clarify that all costs associated with stormwater and dry weather runoff capture and recharge projects, for the purpose of water supply augmentation, are costs associated with providing “water service.”
- State funds for regional water supply enhancement and other public funds should be made available for stormwater and dry weather runoff capture projects including associated data collections efforts and programs to improve stormwater quality. Stormwater and dry weather runoff management programs should be sufficiently flexible to focus limited local, state and federal resources on actions that support community priorities and produce measurable results. This will increase opportunities to pool and leverage scarce resources among permittees, and garner additional resources from other stakeholders and partners.
- The State should encourage research on long-term maintenance and anti-clogging measures to ensure stormwater and dry weather runoff capture and infiltration facilities continue to operate at maximum capacity. Clogging of the infiltrating surface and resulting reductions in infiltration rates are a challenge of all artificial recharge systems. Recharge facilities need to be designed and maintained with biological and sediment clogging in mind.

May 27, 2014

Submitted by: P. Weghorst *PW*

Approved by: Paul Cook *Paul Cook*

ACTION CALENDAR

IRWD GROUNDWATER MANAGEMENT POLICY PRINCIPLES

SUMMARY:

Groundwater levels are at historic lows in many areas of California and many groundwater basins do not have groundwater management plans in place. As a result, many problems are occurring including difficulties meeting water demands, land subsidence, reduced streamflows, degradation of water quality and impacts to fish and wildlife resources. IRWD has been participating in the debate on how to improve local management of groundwater resources in California. Based on this participation and ongoing activities taking place in Sacramento and around the state regarding ways to improve California's management of groundwater resources, staff is recommending that the Board approve a policy principles paper on groundwater management to help guide the District's advocacy efforts on related issues.

BACKGROUND:

The loss of reliable deliveries from the State Water Project and the Central Valley Project, as a result of environmental restrictions and the drought, are driving more dependence on groundwater within California and particularly in the Central Valley. This increased dependence has resulted in significant depletions of groundwater supplies and historically low water levels resulting in problems in meeting demands for water, land subsidence, reduced streamflows, degradation of water quality and impacts to fish and wildlife resources.

Many groundwater basins in the state are managed by local and regional agencies, but many others have no management structure or plans in place. This has left some regions faced with tackling the complex social and economic issues associated with conflicts between overlying rights to extract groundwater and the finite groundwater resources that are available.

The Administration and the Legislature have engaged stakeholders on how to empower local agencies to better manage groundwater basins in their regions. IRWD has been participating in the debate on how to improve local management of groundwater resources in California through the following efforts:

- Commenting on the State Water Resources Control Board (SWRCB) Groundwater Workplan Concept Paper in December 2013;
- Contributing to discussions held at State-sponsored workshops in Sacramento in March and April 2014; and
- Submitting comments to the Administration on improving groundwater management in California on April 23, 2014.

Based on IRWD's standing in the water industry, the opinion of the District is regularly solicited on issues of vital interest to the water resources community. To assist in the District's advocacy efforts on groundwater management issues, staff has prepared a IRWD Groundwater Management Policy Principles paper. The policy paper is attached as Exhibit "A".

The Governor's Administration is interested in pursuing a budget trailer bill related to groundwater management in California. Staff discussions with key staff in the Administration have suggested that the budget trailer bill could propose a framework for changes in California's groundwater management. If a framework-type bill is pursued, it would likely be followed by a policy bill that would implement the specific changes envisioned in the framework. Given that legislative discussions related to groundwater management are underway, staff is proposing that the Board adopt the attached policy principles to guide the District's advocacy efforts.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

None.

COMMITTEE STATUS:

This item was reviewed and approved by the Water Resources Policy and Communications Committee on May 21, 2014.

RECOMMENDATION:

THAT THE BOARD APPROVE THE GROUNDWATER MANAGEMENT POLICY PRINCIPLES.

LIST OF EXHIBITS:

Exhibit "A" – IRWD Groundwater Management Policy Principles

EXHIBIT “A”

IRWD GROUNDWATER MANAGEMENT POLICY PRINCIPLES MAY 27, 2014

ISSUE SUMMARY:

The loss of reliable deliveries from the State Water Project and the Central Valley Project, as a result of environmental restrictions and the drought, are driving an increased dependence on local groundwater within California, particularly in the Central Valley. This increased dependence has resulted in significant depletions of groundwater supplies and historically low water levels resulting in problems in meeting demands for water, land subsidence, reduced streamflows, degradation of water quality and impacts to fish and wildlife resources.

While many groundwater basins in the state are managed by local and regional agencies, many others have no management structure or plans in place. This has left some regions faced with tackling the complex social and economic issues associated with conflicts between overlying rights to extract groundwater and the finite groundwater resources that are available.

The Administration and the Legislature have engaged stakeholders on how to empower local agencies to better manage groundwater basins in their regions, and to develop a process for the State to step in when local management does not occur or when overdraft takes place for an extended period of time. Legislation is being considered that could propose a framework and policy for changes in California’s groundwater management.

BACKGROUND:

In the state of California, each land owner in basins that have not been adjudicated has an overlying right to extract groundwater and to put it to beneficial use. In these situations no discretionary governmental permission is required to produce groundwater. The extraction of groundwater based on these rights results in significant economic benefits to land owners, the local communities and to the state.

Many groundwater basins in the state are not actively managed. In such areas, it is likely that land owner support in the formation of groundwater management agencies and the resulting development of local regulations will become an economic necessity as overdraft conditions continue to increase. Local and regional agency control of groundwater basins is critical because of the need for greater understanding of unique local issues and because local entities must be involved in making decisions that affect their local economies and communities.

As demonstrated by Orange County Water District (OCWD), the management of groundwater resources can occur without limiting production, imposing burdensome well permitting processes or controlling land uses. Like OCWD, other agencies that are actively managing their groundwater basins through local regulations, agreements and other methods have a vested interest in ensuring that legislative efforts related to groundwater management do not affect what is working well.

As a leader in state and federal water resources public policy and governance, Irvine Ranch Water District (IRWD) has worked to promote policy initiatives that allow the District, along

IRWD Policy Principles: Groundwater Management

May 27, 2014

with other water purveyors in California, to enhance the quality and reliability of water supplies throughout the state. As a means of providing input into the discussions surrounding groundwater management in California, and in order to guide the District's advocacy efforts related to these discussions, the following policy principles have been adopted by the IRWD Board of Directors.

POLICY PRINCIPLES:

- Actions should not be taken that would hinder or place burdens on the efforts of agencies that are already providing effective management of groundwater basins.
- The state should focus its actions on areas of the state that do not currently have groundwater management programs in place and where water quality problems and/or overdraft conditions are prevalent and increasing through time.
- The state should review groundwater adjudication processes and provide recommendations to the Legislature on how to make the process more effective, efficient and economical.
- Incentives should be provided for effective local groundwater management rather than taking regulatory actions that result in unfunded mandates and burdensome requirements.
- The recharge of water and use of unused storage capacity in areas that are currently unmanaged should be encouraged.
- The state should encourage the California Department of Public Health in completing its rulemaking on recharge of recycled water.
- Stormwater capture and recharge should be maximized to the extent possible taking into consideration existing rights to the use of water and water quality considerations.
- Actions should be taken that facilitate exchanges of water through consolidated places of use. Such actions would assist in providing water banking storage capabilities to entities with excess water during wet periods. This additional storage would regulate supplies for use during dry years and would reduce dependency on mining of groundwater.
- The state should ask the California Department of Water Resources (DWR) to designate groundwater management areas within the state where they do not exist today. Such designations should take into consideration hydrologic, geohydrologic, institutional and political considerations.
- DWR should provide examples of locally controlled governance structures that have been successful in the management of groundwater resources. Examples of successful adjudications and management methods should be provided and best practices should be published.
- Efforts to require entities to establish thresholds for sustainable groundwater management should be focused on establishing water use reporting and monitoring networks and facilitating the development of groundwater management plans. Resulting thresholds should be sensitive to existing and expected local social and economic conditions.
- Minimum requirements for development of Groundwater Management Plans should be developed and the State should track preparation and implementation of plans.

IRWD Policy Principles: Groundwater Management

May 27, 2014

- Groundwater management agencies should be provided enough time to develop Groundwater Management Plans in order to establish sustainable goals and objectives, to establish water use reporting and monitoring networks, to develop modeling and analysis tools and to develop community consensus on plan elements.
- A process should be implemented where impacted local land owners and communities in unmanaged areas can petition to the SWRCB to establish groundwater management agencies where any of the following conditions are occurring:
 - Groundwater levels are declining such that land uses are being impaired.
 - Extraction of water significantly exceeds replenishment.
 - Preventable waste is occurring.
 - Water quality is degrading due to overdraft conditions.
 - Significant subsidence is occurring.
 - Groundwater contaminants are impacting multiple landowners or communities.
- The state should ensure that new and existing agencies responsible for the management of groundwater resources are given uniform and enforceable powers to collect fees, collect water use information and to implement Groundwater Management Plans.
- The definition of sustainability and groundwater use permitting and planning should be specific to each management area and determined by each local groundwater management agency.
- Incentives should be provided to encourage local and regional management of groundwater basins in the form of grant funding for establishing monitoring well networks and modeling tools.
- The state should provide technical and financial assistance in the development of water use reporting and monitoring networks and Groundwater Management Plans.
- The State should be an active participant in establishing a funding source for cleanup of contaminated groundwater sites where responsible parties are unavailable, unable or unwilling to pay for cleanup.

May 27, 2014

Prepared by: C. Compton

Submitted by: P. Weghorst *PW*

Approved by: Paul Cook *Paul Cook*

ACTION CALENDAR

LETTER OF SUPPORT AND COMMENTS ON THE BAY DELTA CONSERVATION PLAN AND ASSOCIATED DRAFT EIR/EIS

SUMMARY:

The Draft of the Bay Delta Conservation Plan (BDCP) and associated Draft Environmental Impact Report/Environmental Impact Statement (DEIR/EIS) have been released for public review and comment. The 180-day comment period runs until June 13, 2014. Given the importance of the Delta to the state and IRWD, staff recommends that the District submit a letter of support and comments on the BDCP and associated DEIR/EIS before the June 13, 2014 deadline. A proposed comment letter is attached as Exhibit "A" for the Committee's consideration.

It should be noted that the Draft Implementation Agreement, which will establish the obligations of various parties in implementing the BDCP, has not been released for public review and comment. The document's release was originally anticipated earlier this year so that it could be reviewed by the public concurrently with the BDCP and DEIR/EIS. There remains a small possibility that the public review period for the BDCP and DEIR/EIS could be extended if the Draft Implementation Agreement is released before the comment period on the BDCP and DEIR/EIS closes. Given the uncertainty of this possibility, staff recommends that IRWD submit comments on the BDCP and DEIR/EIS at this time.

BACKGROUND:

The BDCP is a joint state and federal effort to develop and implement a 50-year plan that includes a set of water system and ecosystem improvements in the Sacramento-San Joaquin Delta. The BDCP includes a 50-year habitat conservation plan in the form of a Habitat Conservation Plan / Natural Community Conservation Plan (HCP/NCCP), and proposes the construction of a new water conveyance facility at an estimated cost of \$16 billion. It also proposes to restore and/or protect approximately 150,000 acres of habitat within the Delta at an estimate cost of \$4.4 billion. If adopted and implemented, the BDCP will serve as the foundation for achieving the legislatively established co-equal goals of high-quality water supply reliability and ecosystem restoration.

The Draft BDCP and associated DEIR/EIS outlining the preferred project and environmental analysis were released on December 9, 2013 by the California Natural Resources Agency. The BDCP and associated DEIR/EIS evaluated 15 conveyance facilities and a "no action" alternative. The alternatives studied included tunnels, pipelines, canals and a through-Delta alternative. The alternatives studied also looked at conveyance facilities of various sizes and levels of diversion capacity. The facilities evaluated ranged from 3,000 cubic feet per second (cfs) to 15,000 cfs. The BDCP and associated DEIR/EIS recommend Preferred Alternative (No. 4). Preferred Alternative (No. 4) would consist of three intakes and two 30-mile, gravity flow tunnels with a 9,000 cfs capacity. The BDCP and DEIR/EIS can be viewed on the project's website at

www.baydeltaconservationplan.com. A “BDCP Draft Environmental Impact Report/ Environmental Impact Statement Fast Facts” handout summarizing the project and the environmental analysis is attached as Exhibit “B”.

The BDCP and DEIR/EIS were made available for public review in compliance with the California Natural Community Conservation Planning Act, Section 10, of the federal Endangered Species Act (ESA), the California Environmental Quality Act (CEQA), and the National Environmental Policy Act (NEPA). On December 13, 2013, a 120-day public comment and review period began. On February 21, 2014, the state and federal agencies overseeing the BDCP and associated DEIR/EIS extended the comment period by 60 days. The 180-day comment period now runs until June 13, 2014.

The state and federal agencies overseeing the BDCP and DEIR/EIS have stated that all comments received on the draft documents will be considered in the Final EIR/EIS and in the decision-making process. The agencies have asked that comments be concise and focused directly on the analysis in the DEIR/EIS. Also, the agencies have indicated that comments may only be submitted only via mail, email or at a public open house.

In addition to submitting comments on the BDCP and DEIR/EIS, Metropolitan Water District of Southern California has asked local water agencies to express their support for the BDCP process, implementation and focus on the co-equal goals of water supply reliability and ecosystem restoration.

Importance of the BDCP to IRWD:

The Irvine Ranch Water District has successfully taken many steps throughout the past two decades to diversify the District’s water supply and reduce reliance on imported water. Examples of these steps include IRWD’s investment in water recycling, water use efficiency, groundwater production and water banking programs. Like most of Southern California, the District continues to have some degree of reliance on imported water supplies including supplies from the Delta. A reliable and high quality imported water supply is a vital component of the District’s water resources portfolio. Achieving the co-equal goals in the Delta is essential to ensuring a sustainable water supply for millions of Californians and the protection of the Delta as a unique natural asset.

Currently, the Sacramento-San Joaquin Delta faces a wide variety of threats to its health and stability including population growth, habitat loss, unstable levees, seismic activity and water quality. In 2006, state and federal officials, water leaders, environmental organizations and other stakeholders embarked on a comprehensive approach to create a durable regulatory framework that would lead to fundamental and systematic changes in the Delta through the BDCP. The comprehensive legislative Water/Delta package enacted in 2009 complemented the important work of the BDCP.

Given that the goal of the BDCP is to develop and implement a long-term solution to California’s water crisis that will provide reliable, high-quality water to residents, agriculture and businesses across the state and given that the Delta is a source of supply to IRWD, the outcome of the BDCP is of interest to the District.

On October 4, 2012, the Board adopted a revised set of policy principles on the Bay Delta Conservation Plan. The principles describe the District's preferred outcome for the BDCP and recognized that an acceptable final BDCP might not include every aspect of IRWD's adopted principles. The principles provide that the IRWD Board will evaluate and consider a position on the proposed BDCP when it is released for review. A copy of IRWD's 2012 Bay Delta Conservation Plan Policy Principles is attached as Exhibit "C".

With the release of the BDCP and associated DEIR/EIS, staff is returning to the Committee to consider a position and comments on the BDCP and associated DEIR/EIS. Staff recommends that IRWD submit the proposed letter of support and comments attached as Exhibit "A".

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Water Resources Policy and communications Committee on May 21, 2014.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE STAFF TO SEND THE PROPOSED LETTER OF SUPPORT AND COMMENT LETTER ON THE BAY DELTA CONSERVATION PLAN AND THE ASSOCIATED DRAFT ENVIRONMENTAL IMPACT REPORT / ENVIRONMENTAL IMPACT STATEMENT TO THE APPROPRIATE STATE AND FEDERAL AGENCIES BEFORE THE JUNE 13, 2014 DEADLINE.

LIST OF EXHIBITS:

- Exhibit "A" – Proposed Letter of Support and Comments on the BDCP and DEIR/EIS
- Exhibit "B" – BDCP Draft Environmental Impact Report/Environmental Impact Statement (EIR/EIS) Fast Facts
- Exhibit "C" – IRWD Bay Delta Conservation Plan Policy Principles

EXHIBIT “A”
Proposed Letter of Support and Comments on the Draft BDCP and DEIR/EIS

May x, 2014

VIA EMAIL

BDCP Comments
c/o Ryan Wulff
National Marine Fisheries Service
650 Capitol Mall, Suite 5-100
Sacramento, CA 95814

**RE: Comments on the Draft Bay Delta Conservation Plan and Associated Draft
Environmental Impact Report/Environmental Impact Statement**

Dear Mr. Wulff:

Thank you for the opportunity to review and comment on the Draft Bay Delta Conservation Plan (Draft BDCP) and associated Draft Environmental Impact Report/Environmental Impact Statement (DEIR/EIS), collectively referred to as the BDCP. As a water purveyor which remains partially dependant on imported supplies, the Irvine Ranch Water District (IRWD) has a vested interest in California’s water supply reliability, and the implementation of a solution in the Sacramento-San Joaquin Delta (Delta). The District has supported the joint state and federal effort to develop and implement a BDCP which includes a set of water system and ecosystem improvements in the Delta that will serve as the foundation for achieving the legislatively established coequal goals of high-quality water supply reliability and ecosystem restoration. IRWD offers the following comments on the Draft BDCP and associated DEIR/EIS for your consideration as the documents are finalized.

IRWD’s Efforts to Reduce Reliance on the Delta

IRWD is an independent special district that provides high-quality drinking water, reliable wastewater management, ground-breaking recycled water programs, and environmentally-sound urban runoff treatment to more than 340,000 residents in Central Orange County. Over the last two decades, the District has diversified its water supply to reduce its reliance on imported water sources. Despite these efforts, IRWD remains partially dependant on water from the Delta.

A vital part of the District’s efforts to reduce its reliance on the Delta have been IRWD’s local supply development, recycled water and water use efficiency efforts. The District has been and continues to be a leader in the area of recycled water, and meets roughly 29,850 acre-feet, or 25 percent, of our service area’s water demands with recycled water. IRWD also offers cutting-edge conservation and water use efficiency programs so our customers have the tools needed to

use water wisely. We employ a unique allocation-based conservation rate billing structure that rewards customers for conserving water. Since its implementation in 1991, the allocation-based rate structure has help IRWD customers increase their water use efficiency, and reduce their daily usage from 180 gallons per capita per day to 90 gallons per capita per day.

These efforts combined with a considerable investment in local supplies and reliability projects have allowed the District to substantially change the composition of its water supply portfolio. In 1990, IRWD's water supply portfolio was comprised of 9 percent clear groundwater, 11 percent local surface water, 14 percent recycled water, and 66 percent imported water. In 2013, the water portfolio was comprised of 19 percent treated groundwater, 31 percent clear groundwater, 3 percent local surface water, 25 percent recycled water, and 22 percent imported water. IRWD continues to further reduce its reliance on imported supplies and forecasts that by 2035 imported supplies will comprise only 16 percent of the District total water supply portfolio.

Comments on the BDCP and DEIR/EIS

A. The Draft BDCP and DEIR/EIS complies with State law and the Sacramento-San Joaquin Delta Reform Act of 2009, and should be finalized and incorporated in the Delta Plan.

In 2009, the California Legislature passed a comprehensive set of bills, the 2009 Water Package, aimed at addressing the State's aging water infrastructure and increasing water supply reliability throughout California. Included in the 2009 Water Package was adoption of California Water Code Section 85001, which declared the existing policies governing the Delta unsustainable and required a fundamental reorganization in the management of the Delta's ecosystem.

SBX7 1, which was a key piece of the 2009 Water Package, enacted the Sacramento-San Joaquin Delta Reform Act of 2009 (Delta Reform Act). The Delta Reform Act established mechanisms by which future decision about the Delta would be made and required the balancing of Delta water supply reliability improvements with ecological concerns. The adopted decision making process called for the development of a BDCP and requires that the Delta Stewardship Council incorporate the BDCP into the Delta Plan if the proposed BDCP meets certain requirements including being approved as a natural community conservation plan (NCCP) and habitat conservation plan (HCP). *California Water Code Section 85320(e)*.

The Delta Reform Act also requires that the BDCP meet certain conditions before it will be considered for inclusion in the Delta Plan. In addition to complying with the Natural Community Conservation Planning Act and the California Environmental Quality Act. (CEQA), the BDCP must include a "transparent, real-time operational decision making process in which fishery agencies ensure that applicable biological performance measures are achieved in a timely manner with respect to water system operations." *California Water Code Sections 85320(b) & 85321*. The Draft BDCP meets these requirements because it, in association with the DEIR/EIS, includes proposed management as a NCCP/HCP consistent with the Natural Community Conservation Planning Act; has undergone sufficient review under CEQA; and proposes adaptive management for the Delta which includes a decision making tree which will govern the

operation of the water conveyance system to ensure species success based on real-time conditions and flow-rate factors.

Further, the Draft BDCP complies with the Sacramento-San Joaquin Delta Reform Act of 2009 because of the analysis completed in its associated environmental documents. California Water Code Section 85320 requires that the environmental analysis for the Bay Delta Conservation Plan include “ a reasonable range of flow criteria, rates of diversion and other operational criteria required to satisfy the criteria for approval of a natural community conservation plan..., and other operation requirements and flows necessary for recovering the Delta ecosystem and restoring fisheries under a reasonable range of hydrologic conditions;” a reasonable range of Delta conveyance alternatives including through-Delta, dual conveyance, and isolated conveyance alternatives; the potential effects of climate change, and changes in precipitation and runoff patterns on habitat restoration and conveyance; effects on migratory fish and aquatic resources; the efforts on flood management in the Delta; the “resilience and recovery of Delta conveyance alternatives in the event of catastrophic loss caused by earthquake or flood or other natural disaster;” and the “potential effects of each Delta conveyance alternative on Delta water quality.” The DEIR/EIS studied 15 alternatives and a No Action Alternative, and looked at each of the required factors in one or more of its 35 chapters. Through its evaluation of these factors, the DEIR/EIS makes the Draft BDCP compliant with the requirements of the Natural Community Conservation Planning Act, CEQA and the Delta Reform Act. Given the Draft BDCP and DEIR/EIS’s compliance with the Delta Reform Act, IRWD urges the finalization of these documents and the incorporation of the final BDCP in the Delta Plan.

B. The Draft BDCP, in proposing to implement the Preferred Alternative (Alt. No. 4), achieves the coequal goals by balancing ecosystem restoration and improvements in water supply reliability; the final BDCP should maintain this balance.

The Delta Reform Act establishes one of the basic state goals for the Delta as seeking to:

“Achieve the two coequal goals of providing a more reliable water supply for California and protecting, restoring, and enhancing the Delta ecosystem. The coequal goals shall be achieved in a manner that protects and enhances the unique cultural, recreational, natural resource, and agricultural values of the Delta as an evolving place.” *California Public Resources Code Section 29702(a)*.

The coequal goals are a recognition that the Delta is a source of water for two-thirds of Californians, and that the Delta watershed, as the largest fresh water estuary in the Western Hemisphere, is ecologically important as home to 750 different plant and animal species. In recognition of this, any changes in the management of Delta, and any planning documents concerning the Delta, are required to achieve both of the coequal goals.

The BDCP balances the coequal goals by proposing to improve 145,000 acres of Delta habitat and permitting new conveyance facilities, as outlined in the Preferred Alternative (Alt. No. 4), that will improve water supply reliability in the Delta. Implementation of the comprehensive

multi-species, ecosystem approach contained in the BDCP's conservation strategies ensures that all species in the Delta are benefited, and that success is measured by specific, achievable and relevant biological goals. Implementation of the new conveyance facilities proposed in Alt. No. 4 will protect California's water supply from tidal influences, improve water quality and allow for more predictable pumping operations.

The proposed operating rules for the conveyance facilities allows for a "big gulp, little sip" approach that permits increased water exports when excess water is in the Delta watershed, and mandates lower exports when the environment is strained by below-average flows. Additionally, the BDCP proposes to make adjustments in water exports levels based upon the success or failure of the Delta's ecosystem through a structure "intended to meet or contributed to a variety of biological goals and objectives that are related to flow management and reduced entrainment of covered fish species." *Bay Delta Conservation Plan: Executive Summary, Page 10*. The operation criteria for the Preferred Alternative includes continuation of existing criteria being implemented the under the biological opinions managing the Delta today. Maintaining these operating criteria in the adaptive management framework ensures that ecosystem protection will remain an important part of the management of the Delta as conveyance is improved. These operating rules establish the coequal as the cornerstone of the BDCP's operational rules.

Some critics of the BDCP have claimed that the plan unduly favors water supply interests and will permit State Water Contractors (SWC) to export more water than is currently allowed. The BDCP does not provide a greater amount of water for export. The BDCP estimates that the average water supplies available for export will be 4.7 million acre-feet to 5.6 million acre-feet per year. This is the same average currently permitted for export through the Delta. Where water supply reliability is improved is in the implementation of conveyance facilities designed to protect supplies from earthquake, levy-failure, and seawater intrusion risk.

The reality is that California cannot achieve the goal of a high quality water supply without investment in the Delta ecosystem restoration. Likewise, it cannot achieve the goal of ecosystem restoration without investment in the Delta water conveyance system. The BDCP, in adopting Alt. No. 4 as the Preferred Alternative, appropriately achieves the coequal goals, and appropriately reflects an understanding that effective ecosystem restoration is essential to ensuring high quality water supplies are available to Californians. The final BDCP should maintain Alt. No. 4 as the Preferred Alternative, and should continue to achieve both of the legislative mandated coequal goals

C. The BDCP should be finalized and Preferred Alternative (Alt. No. 4) should be implemented; the No Action Alternative does not improve water supply reliability or the Delta ecosystem.

The Sacramento-San Joaquin Delta is an important part of California's water infrastructure and conveyance systems which move water stored in the snowpack of the Sierra Nevada throughout the state. It is a vital water supply for 25 million Californians, five million acres of agriculture lands, and the trillion-dollar economy of Southern California and the Bay Area. For a number of years,

federal and state agencies have been working to identify the investments necessary to convey these supplies across the Delta while restoring its important and valuable ecosystem.

IRWD has long held that the BDCP should include a conveyance project with operational flexibility providing the needed foundation for meeting the coequal goals including effectively conveying reliable and high-quality water supplies under the Delta in a way that ensures the movement of water across the Delta for supply purposes which does not interfere with the natural tidal fluctuations of the Delta needed to support vital habitat. The BDCP correctly identified that a comprehensive approach is essential, that a new conveyance system under the Delta is needed, and that any solution must meet the State's coequal goals of a restored Delta ecosystem and a reliable water supply. In its evaluation of 15 alternatives and a no action alternative as part of the DEIR/EIS, the environmental analysis correctly found that the No Action Alternative leads to increased environmental damage and reduced water supply reliability while the Preferred Alternative (Alt. No. 4) would strike the strongest balance between the coequal goals.

(i) The No Action Alternative does not comply with the coequal goals.

The DEIR/EIS correctly finds that under the No Action Alternative operation of the existing water conveyance facilities would become continually degraded over time due to sea-level rise and climate changes impacts requiring greater Delta outflows to curb salinity increases. *DEIR/EIS Chapter 5, Page 5-57.* The No Action Alternative would require implementation of the Fall X2 RPA action, which requires maintenance of higher outflows at specified locations in wet and above normal years in September and October plus releases in November to combat the effects of sea-level rise and salinity intrusion. Implementation of the Fall X2 RPA action under the No Action Alternative would result in an increase in Delta outflow requirements by 5 percent as compared to existing conditions. *DEIR/EIS Chapter 5, Page 5-57- Page 5-60.* Additionally, sea-level rise and climate change impacts would lead to an increased risk of levee failure under the No Action Alternative if the Delta levee system was not maintained. *DEIR/EIS, Chapter 5, Page 5-62.* An increased risk of levee failure translates into an increased risk of impairment in the Delta as a water supply and a decrease in water supply reliability.

Moreover, the impact of sea-level rise, climate change, and increased salinity would have a negative impact on Delta species, which would result in additional incidental takes associated with the conveyance facilities if operations were not changed. *DEIR/EIS Chapter 5, Page 5-64.* The No Action Alternative appropriately considers the historical inflow supplies as impacted by climate change and continued enforcement under the Endangered Species Act (ESA) in evaluating the impact of no project on State Water Project (SWP) and Central Valley Project (CVP) operations. The DEIR/EIS correctly finds that:

“The scenario characterized as *no federal action* (the No Action Alternative) means that the federal ITPs related to the proposed BDCP would not be issued and that the applicant would remain subject to the take prohibition for listed species and other ESA requirements. Ongoing activities or future actions that may result in the incidental take of

federally listed species would need to be permitted through ESA Section 7 or Section 10.” *DEIR/EIS Executive Summary, Page ES-25.*

Permits would likely not be issued under ESA. Similarly, permits would likely not be issued by the California Department of Fish and Wildlife under Section 2835 of the Fish and Game Code, and the incidental take caused by degradation in the Delta would result in greater operational constraints on the existing system and a reduction in exports. After looking at all of these factors, the DEIR/EIS concludes that under the No Action Alternative average annual Delta exports would be reduced by approximately 14 percent compared to existing conditions. *DEIR/EIS Chapter 5, Page 5.64.* Further, the DEIR/EIS concludes that urban response through conservation and efficiency measures would not be sufficient to account for the reduced exports. *DEIR/EIS Chapter 5, Page 5-64.* These impacts mean that the No Action Alternative should not be considered for implementation, and that a conveyance solution should be implemented in the Delta to prevent environmental degradation and uncertainty in water supply reliability.

(ii) Preferred Alternative (Alt. No. 4) correctly balances the coequal goals.

The Preferred Alternative (Alt. No. 4) presents the best option for improving water supplies and the Delta ecosystem. Alt. No. 4 proposes three new intakes on the Sacramento River and twin 9,000 cubic-foot-per-second (cfs) tunnels to convey water under the Delta to SWP and CVP pumping facilities in the South Delta. It also proposes operation rules to achieve the biological goals and objectives of the BDCP.

The new intakes, operational rules, and enlargement of the SWP Clifton Court Forebay in the South Delta will greatly reduced conflicts between fish and pumping— one of the largest sources of conflict in the Delta. The Preferred Alternative (Alt. No. 4) accomplishes this better protection for aquatic species by reducing reverse flows at the South Delta pumps, which will in turn reduce fish entrainment. The tunnel system proposed will also permit operational efficiencies by allowing for isolation of conveyance facilities. This will enable the number of tunnels in operation during periods of lower flow to be reduced, and the operation of all conveyance facilities during periods of higher flows. The flexibility in facility operations will allow for implementation of the “big gulp, little sip” approach, which allows for reduced exports when the Delta ecosystem requires greater flows and increased exports when there is excess water within the Delta watershed.

The Preferred Alternative (Alt. No. 4) also improves water supply reliability by reducing water supply risks associated with saltwater intrusion from sea-level rise and earthquakes. The best available science and engineering analysis of the Delta levee system has found that a major earthquake in the region would likely cause massive soil liquefaction and failure of numerous levees resulting in relatively rapid seawater intrusion into the Delta. The U.S. Geological Survey estimates a 63 percent chance of a 6.7 magnitude earthquake in the San Francisco Bay before 2036. The risk of a large earthquake in Northern California causing severe damage to the Delta grows greater with each day a comprehensive Delta solution is not implemented. If the state and federal governments do not move forward on the BDCP, California is risking great environmental damage and a loss of a key water supply. Under current pumping procedures, a failure would result in interruption of

deliveries for 3.5 to 4.5 years. *DEIR.EIS Chapter 5, Page 5-62.* Locating the three intakes in the north, as proposed under Alt. No. 4, would allow for water to be taken from the Delta past the tidal influence point, if levee failure were to occur, allowing water supplies to remain secure. Because of this, it provides sufficient protection from the risks associated with a large earthquake in or near the Delta.

The risk to the state's water supply is further threatened by the sea-level rise and the current location of conveyance facilities within the tidal influence zone. Alt. No. 4 again provides greater protection against sea-level raise and tidal influences because it moves the intake locations to the North Delta allowing water to be taken from outside of the enlarged tidal influence zone, and reduces the risk that the conveyance facilities will be negatively impact by salt water intrusion in the event of sea-level raise.

While some of the alternatives considered in the DEIR/EIS would allow for greater exports or greater environmental benefits, the Preferred Alternative (Alt. No. 4) best achieves the coequal goals and balances the needs of the environmental with the need for water supply reliability. For this reason, it should be adopted in the final BDCP and implemented.

(iii) Reconsideration should be given to the location of the intakes in the Preferred Alternative (Alt. No. 4); the three intakes should be placed up stream from waste discharge locations or discharge locations for waste treatment facilities should be relocated downstream of the proposed intakes.

While IRWD supports implementation of the Preferred Alternative (Alt. No. 4), the proposed conveyance project should be designed and constructed in such a way as to produce the highest quality of water for export. To this end, the BDCP should consider either adjusting the conveyance project's intake locations so that the intakes are located above wastewater discharge influence areas, or should relocate wastewater outfall facilities to downstream of the intake locations.

IRWD recognizes that the DEIR/EIS analyzed a number of intake locations. The analysis took two general approaches, which included placement of diversion facilities north on the Sacramento River and diversions at Clifton Court Forebay. IRWD agrees with the analysis that placing diversion locations on the Sacramento River helps avoid entrainment and intake exposure for aquatic species. There is environmental benefit to relocating the Delta intake facilities to along the Sacramento River. What the proposed location of the three intakes under Alt. No. 4 fails to fully take into account is their downstream location from the outfall for the Sacramento Regional Wastewater Treatment Plant. IRWD contends that while the analysis of Alt. No. 4 examined several different intake locations it did not sufficiently weigh the water quality and supply impairment risks of the chosen locations directly south of the outfall. Nor did the analysis fully consider alternatives such as relocating the outfall location to south of Alt. No. 4's intakes.

The Sacramento Regional Wastewater Treatment Plant discharges an average of 141 million gallons per day of effluent into the Sacramento River, just upstream of Alt. No. 4's intake locations, and is permitted to discharge 181 million gallons per day. It is the single largest source of treated sewage discharged to inland waters in the entire state. While the State Water Resources Control Board and the Central Valley Regional Water Quality Control Board have required the Sacramento County Regional Sanitation District to reduce pathogens, ammonia and nitrates in its discharges to the Sacramento River and move to a tertiary-level of treatment, this level of discharge right above the intake locations for California's largest water supply poses a substantial threat to the water reliability and water quality of Delta exports. The impact of the Sacramento County Regional Sanitation District's discharges on the conveyance facilities should be minimized, and the final BDCP and association EIR/EIS should contain sufficient analysis of the alternatives to identify and implement the best alternative to do so. IRWD asks that the Preferred Alternative (Alt. No. 4) be adjusted so that the intake locations are above stream from waste discharge facilities on the Sacramento River.

(iv) Given the risks associated with no action in the Delta, implementation of Preferred Alternative (Alt. No. 4) should not be delayed.

The bottom line is that the risk to the environment and California's water supply is too great if action on a Delta solution is delayed. By combining the water conveyance facility components with water conveyance operational components, conservation components, components related to reducing other stressors, and avoidance and minimization measures, Alt. No. 4 offers the best solution to achieve greater water supply reliability and environmental sustainability—the appropriate balance of the coequal goals. The No Action Alternative, an alternative that does not propose to change the intake location, or an alternative that proposes a conveyance facility of a substantially smaller size, is not a legitimate alternative because it will not achieve the coequal goals. As discussed above the No Action Alternative and failure to change the intake locations would mean the situation in the Delta would remain as it is today—in a continually degrading state in terms of water supply reliability and ecosystem health. Alternatives that downsize the future conveyance facility largely depart from the coequal goals by leaving California without a sufficient water supply solution that ensures water reliability in the Delta, and would not enable the “big gulp, little sip” approach to be implemented. For these reasons, IRWD urges that the Preferred Alternative (Alt. No. 4) be implemented.

IRWD notes that the maintenance requirements for the tunnels have not yet been finalized, and recommends that this be examined more thoroughly in the final BDCP and EIR/EIS. Before implementation is begun, the cost and cost allocation for the Preferred Alternative (Alt. No. 4) should be fully understood. The final parameters of the conveyance system must be reflected in contractual agreements with high quality supply delivery assurances to provide certainty that investments in the conveyance facilities reap adequate returns for investors.

D. Establishing an NCCP/HCP in the Delta is the best vehicle for achieving the Delta's coequal goals, and providing assurances that both environmental protection and water supply reliability will be provided for.

It is important that the Bay Delta Conservation Plan is being developed as a 50-year habitat conservation plan with the coequal goals of restoring the Delta ecosystem and securing California water supplies. A habitat conservation plan is a proper vehicle for reaching these coequal goals because it will bring the interested parties to the same table, and establish clear operating rules and conservation measures for the 50-year term proposed in the BDCP and its associated EIR/EIS. This will provide a level of regulatory certainty, particularly in reference to the Federal Endangered Species Act and the California Endangered Species Act, needed for successful implementation of the plan's Delta improvements. The NCCP/HCP will also enable a stronger watershed-wide approach to improving the Delta's ecosystem health.

As one of the first communities in California to implement a Natural Community Conversation Plan/Habitat Conversation Plan, Orange County and the Central/Coastal NCCP/HCP demonstrated how the private and public sectors, including water agencies, can successfully partner with the resource agencies to allow for a holistic and broad-based ecosystem approach to habitat conservation and ecological protection while allowing for appropriate development and urban planning. The Central/Coast NCCP/HCP in Orange County has demonstrated how substantial amounts of habitat can be conserved and restored based on an ecosystem approach, which better protects biological diversity and improves habitat for species of concern. Ultimately, the use of a similar NCCP/HCP, as proposed in the Bay Delta Conservation Plan, will provide better ecosystem protection and restoration in the Delta.

Orange County's Central/Coastal NCCP/HCP is also a prime example of how NCCP/HCP's ensure that the habitat protection and other operating parameters agreed to in an NCCP/HCP are binding on all of the parties involved. Like the NCCP/HCP process proposed in the BDCP and the long-term 50-year permit discussed in its associated documents, the Central/Coastal NCCP/HCP is a long-term agreement with a permit in effect until 2071. As the coordinating entity for the management of the 37,000-acre reserve system under the Central/Coastal NCCP/NCP, the Nature Reserve of Orange County serves the important role of working to implement the NCCP/HCP on behalf of its signatories. Its role is to ensure that the agreed upon natural communities and species are protected, and that the permit requirements for the reserve are met. After more than a decade, the Nature Reserve of Orange County has continued to bring all of the interested parties to the same table to ensure that the agreement reached in the NCCP/HCP is respected.

As a signatory of the Central/Coastal NCCP/HCP, IRWD can attest to the certainty created by an NCCP/HCP for all of the parties to the NCCP/HCP and the environmental benefits that are associated with a holistic, ecosystem-wide habitat conservation and restoration effort instead of the single-specie approach used to date in the Delta. Use of an NCCP/HCP allows for adaptive management and monitoring that is flexible enough to allow for adjustments necessary to achieve the coequal goals throughout the entire 50-year term of the NCCP/HCP—not just for water supply management but for all stressors on the system— while establishing the rules governing the Delta now so that there is a clear understanding on how management of the Delta will proceed over the next five decades. Use of the NCCP/HCP structure and the 50-year term

proposed meets the objective declared by the Legislature in Water Code Section 85020, which requires that the water and environmental resources of the Delta be managed over the long term.

IRWD agrees that an NCCP/HCP with an adaptive management and monitoring program is the proper structure for the BDCP; however, the District asks that the Implementing Agreement be released in draft form for public review and sufficient time be allowed for comment before the BDCP is finalized. The Implementing Agreement should fairly and clearly detail the roles and responsibilities of each party to the NCCP/HCP and establish the steps taken if a party fails to meet its obligations under the plan. The assurances contained in the Implementing Agreement are important to the BDCP's success and the balancing of the coequal goals.

The draft Implementing Agreement and final BDCP should include the necessary regulatory assurances to sufficiently protect the significant investment being made to improve habitat and water supply reliability. Of the many assurances to be provided for, the NCCP/HCP and Implementing Agreement should provide strong protections from unforeseen circumstances and prohibit new requirements being placed on water conveyance operations for impacts to newly impacted species or species covered by the plans. The holistic approach to the Delta ecosystem envisioned in the NCCP/HCP should account for all of the probable impacts to species in the Delta.

E. Reduced reliance on the Delta should continue to be pursued by local agencies; however water supplies from the Delta will always be needed in most regions of the state. Further, water quality improvements from the Delta conveyance facilities proposed in the Draft BDCP and associated DEIR/EIS will aid in local supply enhancement efforts such as maintaining and expanded water recycling, groundwater replenishment and water banking.

“Each region that depends on water from the Delta watershed shall improve its regional self-reliance for water through investment in water use efficiency, water recycling, advanced water technologies, local and regional water supply projects, and improved regional coordination of local and regional water supply efforts.” *California Water Code Section 85021*. In compliance with the Water Code, IRWD has taken many steps to reduce its reliance on imported water including increasing water recycling, water use efficiency and supply diversification. Despite these efforts, like most of Southern California, the District will always have some degree of reliance on supplies from the Delta. A reliable, high quality imported water supply is a vital component of IRWD's water resource portfolio and, as a result, ecological stabilization of the Delta and new strategic water conveyance improvements are important to ensure on-going water supply reliability for IRWD customers and for those regions that will continue to have some degree of reliance on imported water supplies.

IRWD remains committed to continuing to reducing its reliance on the Delta by investing in those strategies identified in Section 85021. IRWD agrees that all of California would benefit from increasing water conservation, recycling and storage, and that these programs must proceed regardless of what is done in the Delta. Despite best efforts in implementing these strategies,

these efforts, as summarized by the Natural Resources Defense Council, “cannot entirely replace water supplies diverted from the Delta, which is absolutely necessary for California’s economy.”

As evaluation of the BDCP and the Preferred Alternative (Alt. No. 4) continue, it is important to remember that “reduced reliance” does not equate to and was never intended to require a move to 100 percent “self reliance.” The 2009 Delta legislation did not intend or envision a complete elimination in water exports from the Delta, but balanced the need for all of California to use its water resources more wisely and to reduce pressure on the Delta ecosystem. IRWD believes that the operating rules under discussion will provide local agencies with water supply reliability while reducing their dependence on the Delta by providing for reduced exports when increased water flow is need for environmental reasons and for increased exports, which can be stored, during periods of higher flows. Additionally, improvements in water quality associated with the new conveyance facilities will aid local agencies in increasing the effectiveness of self-reliance efforts.

While the BDCP discusses the concept that a Delta solution and improved conveyance is only one piece of California’s overall water supply strategy, it should more clearly identify the BDCP’s importance to the implementation of other strategies essential to a comprehensive statewide approach to integrated supply management. Effective levee improvement and maintenance, development of groundwater and surface water storage, water banking programs, alternative supply development (i.e., recycled water, desalination, storm water capture, impaired groundwater development), water use efficiency, conservation, and improved statewide operational efficiency are all needed for California to fully take advantage of the benefits associated with improved water reliability in the Delta.

The BDCP should but does not fully recognize the need for improvements in Delta water supplies for achieving success in implementing these other aspects of integrated water supply management. For example, the DEIR/EIS correctly identifies some of the benefits associated with recycled water, and the State’s efforts to increase the amount of water recycling throughout the state. In Appendix 1C, it extols the virtues of recycled water as reducing dependence on imported supplies. *DEIR/EIS Appendix 1C, Page 1C.4-33- Page 1C.4-35*. However, the DEIR/EIS do not sufficiently discuss the benefit of improved water quality in imported supplies and the correlation to increased recycled water throughout the state. The extent of the analysis is the following:

“There may be an impact on recycled water use if the importation of Delta water in to Metropolitan Water District is significantly reduced. Because of the high salinity of Colorado River water, southern California has relied on SWP imports not only to increase supply but also to improve water quality by reducing the percentage of Colorado River water in delivered water. Recycled water has more salts than the potable water supply, and it uses can be diminished if source water salinity increases. Desalination is used in a few cases to improve recycled water quality, mostly for groundwater recharge and specialized industrial users, but a more widespread need for desalinating recycled water could make the cost prohibitive.” *DEIR/EIS Appendix 1C, Page 1.C.4-27*.

The analysis should be expanded to make clear the importance of source water quality to recycling, and the reuse of water locally. The Preferred Alternative (Alt. No. 4) will lessen salt loading in Southern California by allowing Delta water of higher quality to be blended with Colorado River water. Once the imported water is used and recycled, it will result in lower salt concentrations in the recycled water as noted in the DEIR/EIS, but it will also result in benefits to groundwater recharge. In Orange County, this reduction in salt benefits the Orange County groundwater basin, which is recharged with recycled water. This type of benefit should be included in the BDCP's analysis. There should also be a more thorough examination of how the increases in water quality associated with the Preferred Alternative (Alt. No. 4) will decrease in groundwater degradation, increases in water banking, and how the project will benefit water storage.

The final BDCP must continue to reflect that a Delta solution and improved conveyance is only a piece of California's overall water supply strategy; however, the BDCP must complement other strategies essential to a comprehensive statewide approach to integrated supply management by providing water supplies of improved water quality. The DEIR/EIS should recognize that if the water quality improvements are obtained in the Delta, the BDCP will likely have the impact of further bolstering regional self-reliance efforts.

F. The BDCP is vital to California's water supply which is vital to California's economic strength. The BDCP should evaluate the economic impact of taking no action in the Delta and should not limit the focus of its economic impact analysis to only growth inducement.

The BDCP evaluates the economic impact of the project's potential for growth inducement; however, it does not adequately take into account the economic impact of failing to secure water reliability for the state's economic centers. The economy of California is largely driven by economic activity in the Bay Area, and in the counties of Los Angeles, Orange and San Diego. To put the economic contributions of these areas in perspective it is important to note that Los Angeles and Orange counties contribute roughly \$766 billion to California's gross state product (GSP). The Bay Area contributes \$534 billion, and San Diego County contributes \$177 billion. These three areas alone comprise nearly 75 percent of the state's \$2 trillion GSP.

These areas of the state depend heavily on the Bay-Delta with nearly one third of their water supplies coming from Delta exports, and the economic vitality of these areas is dependent upon a secure and reliable water supply. The bottom line is that predictability, especially in areas of infrastructure essential to business operations like water, is what business needs in order to make investments that will continue to strengthen our state's economy. The BDCP should take into account the economic cost of not providing water security in its economic impact analysis. Given the importance of Southern California and the Bay Area to California's economy it is likely that the cost of not completing the BDCP would outweigh the economic impacts associated with growth inducement caused by the project.

The importance of a reliable water supply to the California economy cannot be overstated. Beyond the economic hubs along California's coast, California risks severe and possibly permanent damage to our state's agricultural economy if the project is not implemented. The water from the Delta supports more than five million acres of California agriculture. These five million acres represents more than 80 percent of the United States' food production and more than 500,000 jobs. Loss of water as a result of failure in the Delta will mean California's agriculture will lose an essential water supply. That loss of water will result in millions of acres of unproductive land and a loss of jobs in communities which have already suffered great losses as a result of our most recent economic downturn and drought. Without implementing the comprehensive environmental and conveyance solution proposed by the BDCP, California risks unprecedented damage to its \$44.7 billion agriculture industry.

The SWP and the CVP are two of the most important conveyance systems in California. For seven years, federal and state agencies have been working constructively within the BDCP to identify the right investments necessary to transport these supplies across the Sacramento-San Joaquin Delta while restoring this treasured ecosystem. Failure to move forward with the project would put the health of the Delta and California's economy at risk, and this should be acknowledged in the BDCP.

Conclusion

The development of a secure and reliable water supply for the citizens of California is important to the economic vitality of our state. IRWD encourages the state and federal agencies to quickly finalize the BDCP and associated EIR/EIS with the additional analysis discussed above. Once this analysis is included, the BDCP and Preferred Alternative (Alt. No. 4) should be expeditiously implemented to limit further uncertainty in the Delta's ecosystem and water supply reliability. California can no longer afford to delay its investment in the Delta.

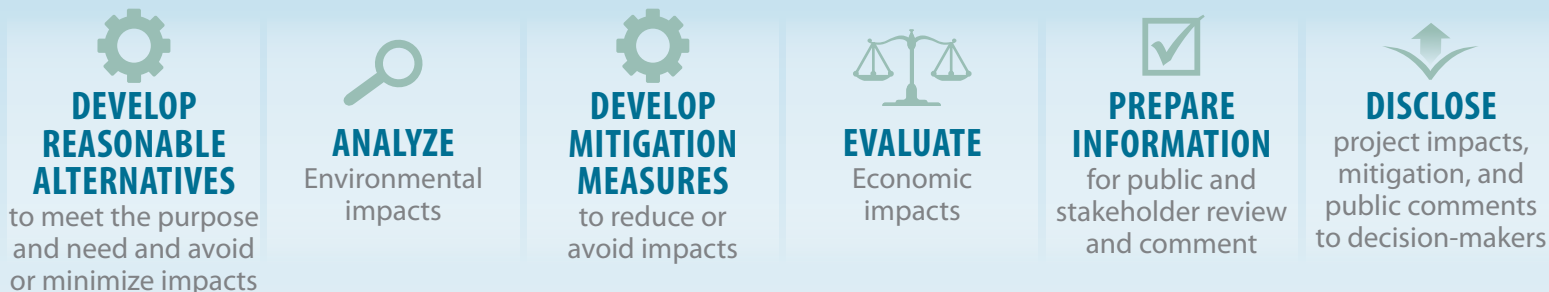
Sincerely,

February 2014

The BDCP Draft EIR/EIS is...

An analysis of BDCP and its alternatives' negative and beneficial impacts on the human environment, and actions to avoid or minimize negative impacts, with the goal of improving the Delta ecosystem and ensuring reliable water supplies for 25 million Californians.

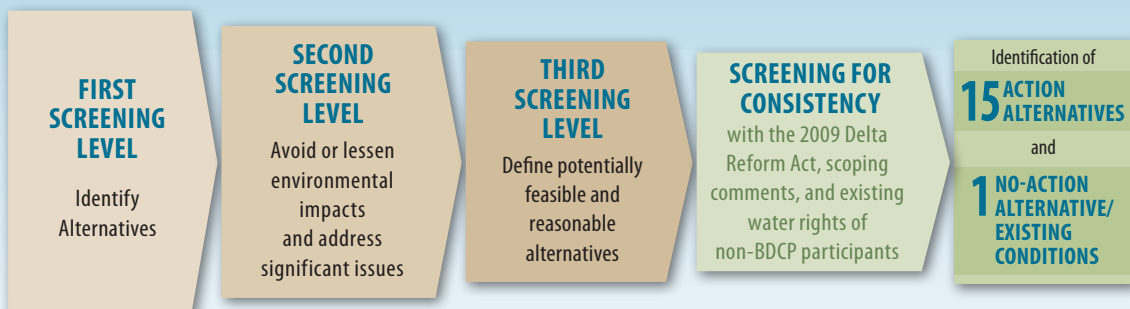
Environmental Analysis Objectives



Robust, Science Driven Screening Process

Alternatives evaluated in the Draft EIR/EIS must:

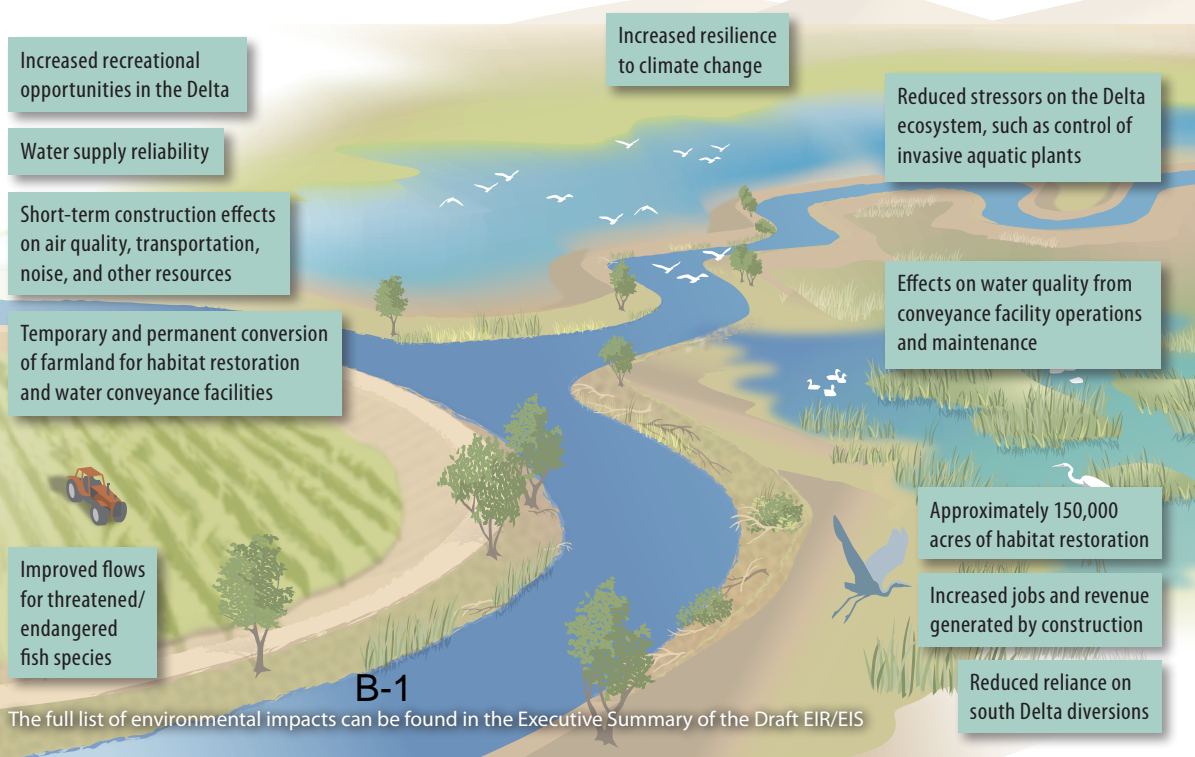
- 1 Be feasible and reasonable
- 2 Meet project objectives
- 3 Avoid or substantially reduce significant impacts



The BDCP Draft EIR/EIS Analyzes more than 600 resource area impact categories. Of these resource impact categories, 65-79 environmental impacts were deemed beneficial, depending upon the alternative evaluated. 57-60 resource areas were found to have no impact, and up to 431 resource area impacts were deemed less than significant.

The Draft EIR/EIS determined 54-72 significant and unavoidable impacts (as determined by the California Environmental Quality Act), depending upon alternative, that may be reduced with the implementation of additional mitigation measures.

BDCP Environmental Benefits and Impacts



The full list of environmental impacts can be found in the Executive Summary of the Draft EIR/EIS

15 Draft EIR/EIS Action Alternatives:

The Draft EIR/EIS alternatives represent a combination of water conveyance configurations, capacities and operational criteria, habitat restoration and conservation targets, stressor reduction measures, and various avoidance and minimization measures.

The BDCP will include approximately 150,000 acres of restored and protected habitat for 56 covered species, and improve flow conditions to benefit fish in the Delta.

Alternative	Maximum Water Diversions	Intakes
1A	15,000 cfs	1-5
2A	15,000 cfs	1-3, 6, 7, or 1-5
3	6,000 cfs	1 & 2
4	9,000 cfs	2, 3 & 5
5	3,000 cfs	1
6A	15,000 cfs	1-5
7	9,000 cfs	2, 3 & 5
8	9,000 cfs	2, 3 & 5
1B	15,000 cfs	1-5
2B	15,000 cfs	1-3, 6, 7, or 1-5
6B	15,000 cfs	1-5 isolated
1C	15,000 cfs	West (W)1
2C	15,000 cfs	W1-W5
6C	15,000 cfs	W1-W5
9	15,000 cfs	Delta Cross Channel and Georgiana Slough channel modifications
NO ACTION/NO PROJECT	Current operations	N/A

ALTERNATIVE 4:

- CEQA (or state) Preferred Project
- Recently improved to reduce the footprint by nearly one-half of its original size

ALTERNATIVE 1B:

- Eastern Delta lined or unlined open canal
- Five intakes between Clarksburg and Walnut Grove

ALTERNATIVE 9:

- Screened intakes at Delta Cross Channel and Georgiana Slough
- Four basic corridors:
 - North Delta corridor
 - South Delta corridor
 - San Joaquin separate fish movement corridor
 - Mokelumne separate fish movement corridor



NOTE: A full description of the 15 Action Alternatives, and the No Action Alternative, can be found in Chapter 3 (Alternatives) of the Draft EIR/EIS.

EXHIBIT "C"

Irvine Ranch Water District
Bay Delta Conservation Plan Policy Principles
October 4, 2012

Issue Summary:

The Bay Delta Conservation Plan (BDCP) is a joint state and federal effort to develop and implement a 50-year plan that includes a set of water system and ecosystem improvements in the Sacramento-San Joaquin Delta and will serve as the foundation for achieving the legislatively established co-equal goals of high-quality water supply reliability and ecosystem restoration.

The Irvine Ranch Water District has successfully taken many steps throughout the past two decades to diversify the District's water supply and reduce reliance on imported water, including investment in water recycling, water use efficiency, groundwater production, and water banking programs. Like most of Southern California, the District continues to have some degree of reliance on imported water supplies including supplies from the Delta. A reliable and high quality imported water supply is a vital component of the District's water resources portfolio. Achieving the co-equal goals in the Delta is essential to ensuring a sustainable water supply for millions of Californians and the protection of the Delta as a unique natural asset.

The following BDCP policy principles supplement the 2009 IRWD Bay Delta Policy Principles. These principles describe the District's preferred outcome for the BDCP. The District recognized that an acceptable final BDCP might not include every aspect of the following principles. As such, the IRWD Board will evaluate and consider a position on the final proposed BDCP when released for review.

Background:

The Sacramento-San Joaquin Delta faces a wide variety of threats to its health and stability including population growth, habitat loss, unstable levees, seismic activity, and water quality. In 2006, state and federal officials, water leaders, environmental organizations and other stakeholders embarked on a comprehensive approach to create a durable regulatory framework that would lead to fundamental and systematic changes in the Delta. This effort is the BDCP. The comprehensive legislative Water/Delta package enacted in 2009 complemented the important work of the BDCP. The goal of the BDCP is to develop and implement a long-term solution to California's water crisis that will provide reliable, high-quality water to residents, agriculture and businesses across the state and will protect vital Delta habitat.

The key elements of the BDCP are:

- New water conveyance facilities to improve flow patterns for Delta fisheries while improving water supply reliability;
- Biological goals and objectives for fish and other species;
- Restored and protected aquatic and terrestrial habitat;
- Measures to address other ecological stressors;
- Governance structure to implement the BDCP collaboratively including a clear process for addressing issues and conflicts as they arise; and
- Financing mechanisms and funding responsibilities.

In July 2012, state and federal leaders announced revisions to the BDCP, a preferred conveyance alternative, and timeline for moving forward with the BDCP process. The preferred alternative, along with a full range of alternative proposals, will undergo a thorough public environmental review process beginning with the release of a Draft Bay Delta Conservation Plan and corresponding Environmental Impact Report/Statement for public comment in the fall of 2012 and an expected adoption of the Record of Decision in 2013.

The BDCP faces a variety of political and practical challenges. Delta communities fear the BDCP will lead to endless additional exports of water from the Delta; environmental groups argue that alternative conveyance will further impair the health of the Delta ecosystem; and significant financing questions remain, particularly in light of the second delay in the statewide Water Bond.

The BDCP is vital to California's water supply and the overall health of the Delta, which are, in turn, vital to California's economic strength. The process offers the best opportunity for California to develop a comprehensive and lasting Delta solution that will achieve the co-equal goals of supply reliability and habitat restoration. IRWD supports and encourages the BDCP process and looks forward to the development and implementation of a Plan that will secure California's water supply while protecting the state's precious natural resources.

Policy Principles:

General:

- The BDCP must recognize that California cannot achieve the goal of a reliable high quality water supply without investment in Delta ecosystem restoration and, conversely, cannot achieve the goal of ecosystem restoration without securing high-quality water supplies through the development of effective conveyance infrastructure.
- The final BDCP must support the legislatively mandated co-equal goals of high quality water supply reliability and ecosystem restoration. It is vital that the water supply reliability and ecosystem restoration components of the Plan complement and reinforce each other.
- The final BDCP must reflect a balanced solution for California as a whole without elevating the needs of one region over another. A comprehensive Plan must be based on collaboration between all stakeholders, science and research, and a comprehensive statewide perspective. The BDCP process offers the best opportunity to meet these objectives.
- Partnership with Delta communities and leaders, recognition of the Delta's value to California, and identifying opportunities for investment in Delta communities are vital to the successful implementation of the BDCP.

- It is essential that the BDCP process moves forward in a timely manner as proposed by the state and federal proponents in July 2012. The release of a Draft Environmental Impact Report/Statement by fall 2012 is crucial to the adoption of an official Record of Decision by 2013.

Water Supply and Conveyance:

- The final BDCP must include a conveyance project with operational flexibility providing the needed foundation for meeting the co-equal goals, including:
 - Effectively conveying reliable and high-quality water supplies under the Delta to for 25 million Californians, 3 million acres of farmland, and other uses; and
 - Conveying water supplies under the Delta in a way that ensures the movement of water across the Delta for supply purposes does not interfere with the natural tidal fluctuations of the Delta needed to support vital habitat.
- The proposed conveyance project must not only ensure the availability of water supplies but also must be designed and constructed in such a way as to produce the highest possible quality water for export. To meet this end, the BDCP should consider a conveyance project that positions the intakes above and outside the tidal zone and treated wastewater discharge influence to protect water quality, particularly during low tidal times.
- The final parameters of a conveyance system must reflect:
 - Contractual agreements and high quality supply delivery assurances to provide certainty that those investments in conveyance reap adequate returns for investors;
 - A goal of reducing unanticipated interruptions and restrictions on pumping; and
 - Agreements to reduce future water supply exports from the Delta rather than reductions in current export levels.
- The final BDCP must reflect that a Delta solution and improved conveyance is only a piece of California's overall water supply strategy. The BDCP must complement other strategies essential to a comprehensive statewide approach to integrated supply management including:
 - Effective levee improvement and maintenance;
 - Development of groundwater and surface water storage and water banking programs;
 - Alternative supply development (i.e., recycled water, desalination, storm water capture, impaired groundwater development);
 - Water use efficiency and conservation; and
 - Improved statewide operational efficiency.
- The BDCP must protect existing water rights, including rights north of the Delta, and Delta interests to ensure that all areas of the state have adequate water supply sustainability.

Conservation and Ecosystem Restoration:

- The BDCP must be developed as a Habitat Conservation Plan and a California Natural Community Conservation Plan. This will provide a level of regulatory certainty, particularly in reference to the Federal Endangered Species Act, needed for successful implementation of the Plan's Delta improvements.
- The BDCP must reflect the understanding that effective ecosystem restoration is essential to ensuring high quality water supplies are available to Californians.
- The BDCP must incorporate a collaborative, science-based approach built on independent, unbiased research, including a clearly articulated conservation strategy that reflects the impact and responsibility of all Delta stressors.
- The Plan's conservation and ecosystem restoration strategy must use a comprehensive multi-species approach that is flexible enough to allow for adjustment necessary through an adaptive management framework and program.
- To the extent possible, the biological goals of the Plan must be specific, measureable, achievable, relevant, and time-bound.

Finance and Governance:

- The BDCP must be cost-effective as determined by a sound cost and financial analysis that studies the true costs of all components of the Plan.
- The BDCP must reflect the following widely agreed upon finance structure:
 - State and federal water contractors and their customers will pay for the cost of conveyance;
 - Habitat and ecosystem restoration and mitigation costs will be borne by the state, ideally through bond proceeds;
 - If a water user fee is considered for funding any component of the Plan, that fee must be established on a clearly defined "beneficiary pays" principle that ensures a clear legal nexus and proportionality between financial responsibility and benefits realized and recognizes the responsibility of all Delta stressors; and
 - The Plan must include a sound cost and financial analysis.
- Establishing a clearly articulated, cooperative governance structure is critical for the successful implementation of the BDCP. This governance structure must be:
 - Open and transparent;
 - Allow all affected parties to play an appropriate role in the governance and implementation of the BDCP; and
 - Include clear decision-making and conflict resolution processes.