

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

August 27, 2012

PLEDGE OF ALLEGIANCE

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

ROLL CALL Directors Reinhart, LaMar, Swan, Withers and President Matheis

NOTICE

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

COMMUNICATIONS TO THE BOARD

1. A. Written:
- B. Oral: Mrs. Joan Irvine Smith relative to the Dyer Road Wellfield.

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.

CONSENT CALENDAR

Resolution No. 2012-38

Items 3-13

3. **MINUTES OF REGULAR BOARD MEETING**

Recommendation: That the minutes of the August 13, 2012 Regular Board Meeting be approved as presented.

4. **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.

5. JULY 2012 FINANCIAL REPORTS

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report and the Monthly Interest Rate Swap Summary for July 2012; approve the July 2012 Summary of Payroll ACH payments in the total amount of \$1,348,110.77, and approve the July 2012 Accounts Payable Disbursement Summary of Warrants Nos. 331397 through 331995, Workers' Compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$23,528,361.66.

6. DISTRICT STRATEGIC MEASURES DASHBOARD

Recommendation: That the Board receive and file the Strategic Measures Dashboard and Information items.

7. UPCOMING PROJECTS STATUS REPORT

Recommendation: That the Board receive and file the Upcoming Projects Status Report.

8. SAND CANYON OFFICE DEVELOPMENT PROJECT – TENANT IMPROVEMENTS CHANGE ORDER AND FINAL ACCEPTANCE

Recommendation: That the Board accept construction of the Sand Canyon Office Development Tenant Improvement Project and authorize the General Manager to file a Notice of Completion; and authorize payment of the retention 35 days after the date of recording the Notice of Completion.

9. OPERATIONS CENTER FACILITIES EXPANSION PROJECT PHASE I MEZZANINE CONVERSION FINAL ACCEPTANCE

Recommendation: That the Board accept construction of the Operations Center Facilities Expansion Project Phase I Mezzanine Conversion, projects 11422 (1388), 21422 (1120), and 31422 (1156); authorize the General Manager to file a Notice of Completion; and authorize the payment of the retention 35 days after the date of recording the Notice of Completion.

10. ADDENDUM NO.1 TO THE CITY OF LAKE FOREST SPORTS PARK AND RECREATION CENTER FINAL ENVIRONMENTAL IMPACT REPORT

Recommendation: That the Board approve the proposed Addendum No.1 to the City of Lake Forest Sports Park and Recreation Center Final Environmental Impact Report, including the determination set forth in Addendum No. 1.

CONSENT CALENDAR - Continued

Resolution No. 2012-38

Items 3-13

11. MICHELSON WATER RECYCLING PLANT BIOSOLIDS HANDLING AND ENERGY RECOVERY FACILITIES AND BAKER WATER TREATMENT PLANT - FINDING OF SUBSTANTIAL COMPLEXITY

Recommendation: That the Board finds that the MWRP Biosolids Handling and Energy Recovery Facilities project 20847 (1617) and the Baker Water Treatment Plant project 11218 (1417) are both substantially complex and require a retention of ten (10%) percent of the contract price during the construction phase of each project.

12. MICHELSON WATER RECYCLING PLANT BIOSOLIDS HANDLING AND ENERGY RECOVERY FACILITIES VARIANCE

Recommendation: That the Board authorize the General Manager to execute Variance No. 4, in the amount of \$24,000, with Environ for engineering services to complete the air permit application package for the Michelson Water Recycling Plant Biosolids Handling and Energy Recovery Facilities, project 20847 (1617).

13. WELLS 21 AND 22 WELLHEAD FACILITIES SUBCONTRACTOR SUBSTITUTION

Recommendation: That the Board authorize substitution of the electrical subcontractor in accordance with California Public Contract Code 4107.

ACTION CALENDAR

14. MICHELSON WATER RECYCLING PLANT PHASE 2 EXPANSION CONTRACT CHANGE ORDER NO. 77

Recommendation: That the Board approve Contract Change Order No. 77, in the amount of \$151,336.95, for rehabilitative repairs to the chlorine contact tanks with J. R. Filanc Construction Co. for the MWRP Phase 2 Expansion, project 30214 (1706).

15. ORANGE PARK ACRES TRANSMISSION PIPELINE PROJECT CONTRACT CHANGE ORDER NO. 37

Recommendation: That the Board approve Contract Change Order No. 37 with Leatherwood Construction, Inc. in the amount of \$208,121 for the Orange Park Acres Transmission Pipeline, project 11408 (1279).

ACTION CALENDAR - Continued

16. ON-CALL CONSTRUCTION MANAGEMENT SERVICES VARIANCE NO. 1

Recommendation: That the Board authorize the General Manager to execute Variance No. 1 to the Professional Services Agreement with CH2M Hill in the amount of \$161,000 for continued on-call construction management services for the Wells 21 and 22 project and other capital projects.

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.

17. A. General Manager's Report

B. Directors' Comments

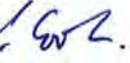
C. CLOSED SESSION CONFERENCE WITH LEGAL COUNSEL - Existing litigation -- Government Code Section 54956.9(a) - SEMA Construction vs. the City of Tustin and City of Tustin vs. IRWD.

D. 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.

August 27, 2012
Prepared and
Submitted by: L. Bonkowski 
Approved by: P. Cook 

CONSENT CALENDAR

MINUTES OF REGULAR BOARD MEETING

SUMMARY:

Provided are the minutes of the August 13, 2012 Regular Board meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE AUGUST 13, 2012 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – Minutes of the August 13, 2012 Regular Board Meeting

EXHIBIT "A"

MINUTES OF REGULAR MEETING – AUGUST 13, 2012

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order at 5:00 p.m. by President Matheis on August 13, 2012 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

Directors Present: Matheis, Reinhart, LaMar, Swan, and Withers (arrived at 5:18 p.m.)

Directors Absent: None.

Also Present: General Manager Cook, Acting Executive Director of Finance/Treasurer Rob Jacobson, Executive Director of Operations Pedersen, Executive Director of Engineering Burton, Executive Director of Water Policy Heiertz, Director of Water Resources Weghorst, Principal Engineer Malloy, Director of Human Resources Wells, Secretary Bonkowski, Legal Counsel Arneson, Director of Public Affairs Beeman, Mr. Jim Reed, Mr. Bruce Newell, Ms. Kirsten McLaughlin, 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 1, 4, 5, 7, C-8, C-9, 10, 11, 12, 13, 14, 17 and 18 will operate in accordance with the District's annual pumping plan. Wells 2, 3, 6, 11, 15, and 16 will be off. This was confirmed by Mr. Cook, General Manager of the District.

With respect to the OCWD annexation of certain IRWD lands, on June 5, 2009, IRWD received a letter from OCWD noting that OCWD has completed the formal responses to comments they previously received on the draft program Environmental Impact Report. The letter further noted that with this task completed, OCWD has exercised its right to terminate the 2004 Memorandum of Understanding (MOU) regarding annexation. OCWD also indicated that due to the lack of progress on the annexation issue, the draft program Environmental Impact Report will not be completed. On June 8, 2009, OCWD completed the Long-Term Facilities Plan which was received and filed by the OCWD Board in July 2009. Staff has been coordinating with the City of Anaheim (Anaheim) and Yorba Linda Water District (YLWD) on their most recent annexation requests and has reinitiated the annexation process with OCWD. IRWD, YLWD and Anaheim have negotiated a joint MOU with OCWD to process and conduct environmental analysis of the annexation requests. The MOU was approved by the OCWD Board on July 21, 2010. 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. IRWD has 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 both approved the operating agreement. This was confirmed by Mr. Cook.

PRESENTATION

WATEREUSE AWARD TO CREAN LUTHERAN HIGH SCHOOL

Executive Director of Engineering Heiertz presented to Principal Beavers of Crean Lutheran High School a WaterReuse award for "Recycled Water Customer of the Year" for using recycled water to irrigate nine acres of landscaping and for toilet flushing. He said that in total they use almost 10 million gallons of recycled water per year. He further said that Crean Lutheran is the second dual-plumbed school in the State of California, and contributed to more dual-plumbed schools in the IRWD service area. Mr. Beavers thanked the District for its partnership in receiving this award.

CONSENT CALENDAR

Following a request by Directors Reinhart and Swan, items No. 5 and No. 15 were moved to the Action Calendar (see pages 4 and 5). On MOTION by LaMar, seconded and carried (Withers absent), CONSENT CALENDAR ITEMS 4, 6 THROUGH 14 AND 16 WERE APPROVED AS FOLLOWS:

4. MINUTES OF BOARD MEETING

Recommendation: That the minutes of the July 23, 2012 Regular Board Meeting be approved as presented.

6. RATIFICATION OF AUGUST 2, 2012 MEMORANDUM RELATIVE TO THE BOARD, COMMITTEES AND OTHER ASSIGNMENTS, AND ADOPTION OF A RESOLUTION REVISING ASSIGNMENT OF DIRECTORS TO COMMITTEES OF THE BOARD

Recommendation: That the Board ratify the Memorandum dated August 1, 2012 entitled *Officers of the Board, Committees and Other Assignments*, accept the resignation of Ms. Debby Cherney as Assistant Treasurer of the District, and adopt the following resolution rescinding Resolution No. 2012-2 and revising the assignment of Directors to Committees of the Board.

RESOLUTION NO. 2012 - 35

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT, RESCINDING
RESOLUTION NO. 2012-2 AND REVISING THE ASSIGNMENT
OF DIRECTORS TO COMMITTEES OF THE BOARD

CONSENT CALENDAR (CONTINUED)

7. NATIONAL WATER RESEARCH INSTITUTE AMENDMENTS TO JOINT POWERS AGREEMENT

Recommendation: That the Board authorize the President to execute Amendment Nos. 4, 5, 8, 9, 10 and 11 to the National Water Research Institute's Joint Powers Agreement.

8. 2012 STATE LEGISLATIVE UPDATE

Recommendation: Receive and file.

9. SAND CANYON OFFICE DEVELOPMENT PROJECT – PHASE I CHANGE ORDER, CONSULTANT VARIANCE AND FINAL ACCEPTANCE

Recommendation: That the Board approve Contract Change Order No. 8 with KPRS Construction, Inc. in the net amount of \$60,333 (project No. 1284); approve a final consulting variance for Newport Real Estate Services in the amount of \$26,515; authorize the General Manager to file a Notice of Completion; and authorize payment of the retention 35 days after the date of recording the Notice of Completion.

10. QUITCLAIM OF REAL PROPERTY – SHEA/BAKER RANCH ASSOCIATES LLC

Recommendation: That the Board adopt the following resolution by title approving execution of the Quitclaim Deed to Shea/Baker Ranch Associates LLC.

RESOLUTION NO. 2012-36

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT APPROVING
EXECUTION OF THE QUITCLAIM DEED TO
SHEA/BAKER RANCH ASSOCIATES LLC

11. GREAT PARK DEVELOPMENT REIMBURSEMENT AGREEMENT WITH HERITAGE FIELDS EL TORO, LLC

Recommendation: That the Board authorize the General Manager to execute a Reimbursement Agreement with Heritage Fields El Toro, LLC for the construction of capital facilities for Planning Areas 30 and 51 (Great Park Development).

CONSENT CALENDAR (CONTINUED)

12. METER AND VALVE VAULT LID REPLACEMENT PROJECT, PHASE 1 FINAL ACCEPTANCE

Recommendation: That the Board accept construction of the Meter and Valve Vault Lid Replacement project, Phase 1, projects 11358 (1800) and 31358 (1065); authorize filing of a Notice of Completion; and authorize the payment of the retention 35 days after the date of recording the Notice of Completion.

13. GENERATOR INTERCONNECTION AGREEMENT AND SERVICE AGREEMENT FOR WHOLESALE DISTRIBUTION SERVICE WITH SOUTHERN CALIFORNIA EDISON FOR OC-39 HYDROELECTRIC GENERATING FACILITY

Recommendation: That the Board authorize the General Manager to execute the Generator Interconnection Agreement and Service Agreement for Wholesale Distribution Service with Southern California Edison for the existing OC-39 Hydroelectric Generating Facility.

14. APPROVAL OF IRWD'S SHARE OF SOCWA'S FISCAL YEAR 2012-13 BUDGET

Recommendation: That the Board approve IRWD's share of SOCWA's Fiscal Year 2012-13 budget in the amount of \$342,200.

16. MEMORANDUM OF UNDERSTANDING BETWEEN IRWD AND ICDC FOR THE BEE CANYON PUMP STATION RELOCATION

Recommendation: That the Board authorize the General Manager to execute the Memorandum of Understanding regarding construction of the new Bee Canyon Pump Station and the subsequent dismantling and quitclaiming of the existing Bee Canyon Pump Station site and pipeline easement to Irvine Community Development Company LLC.

ACTION CALENDAR

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

Director Matheis asked that the July 27, 2012 meeting be removed from her meetings to be ratified as she was unable to attend the Southern California Water Committee Quarterly Meeting. Director Reinhart asked that the July 24, 2012 meeting with South County Agencies at Moulton Niguel Water District be removed as he was unable to attend. There being no further changes, on MOTION Reinhart, seconded and unanimously carried, THE BOARD RATIFIED/APPROVED THE MEETINGS AND EVENTS FOR STEVEN LAMAR, MARY AILEEN MATHEIS, DOUGLAS REINHART, AND PEER SWAN.

FISCAL YEAR 2012-13 IRVINE LAKE OPERATIONS, MAINTENANCE AND CAPITAL BUDGET

In response to an inquiry from Director Swan, Executive Director of Operations Pedersen reviewed the cost sharing methodology with Serrano Water District for the repair work. On MOTION by LaMar, seconded and carried (Withers absent), THE BOARD APPROVED THE PROPOSED FISCAL YEAR 2012-13 IRVINE LAKE OPERATIONS, MAINTENANCE AND CAPITAL BUDGET OF \$287,300, INCLUDING \$215,475 FOR IRWD'S PROPORTIONATE SHARE OF THE COSTS AND \$71,825 FOR SERRANO WATER DISTRICT'S PROPORTIONATE SHARE OF THE COSTS.

RATIFICATION OF QUITCLAIM OF REAL PROPERTY - IRVINE COMMUNITY DEVELOPMENT COMPANY LLC

This item was adopted on July 9, 2012, on a 2-0 vote, with Director LaMar recusing himself from voting on the item due to a past business relationship with Wilson Mikami Corporation. Following the meeting, legal counsel had an opportunity to research the item and found that in an opinion issued in late 2011, the California Attorney General reconsidered some of its prior opinions on the treatment of abstentions in counting a quorum, and concluded that unlike discretionary abstentions, abstentions required by law (including those required as a result of economic interests) should not be used for purposes of a quorum. Based on this opinion, for this item, a quorum of the Board was not met.

Director LaMar said that he currently has a business relationship with Wilson Mikami Corporation, who is processing the Quitclaim for the property located in Portola Springs on behalf of the Irvine Community development Company LLC, and he will recuse himself from voting on this item. He left the Board room at 5:15 p.m. On MOTION by Swan, seconded by Reinhart and carried (3-0-2) (Matheis, Reinhart and Swan voting aye, La Mar abstaining and Withers absent), THE BOARD RATIFIED AND READOPTED THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2012 -37

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

At 5:17 p.m., Director LaMar returned to the Board room.

PERSONNEL POLICY NO. 36 – PERFORMANCE RECOGNITION PROGRAM

General Manager Cook reported that at its meeting on August 7, 2012, the Finance and Personnel Committee requested that the District's Performance Recognition Program be brought to the Board for discussion. Mr. Cook said that during this meeting, the Committee reviewed the Performance Recognition Program Quarterly Update and that there was a discussion during this meeting regarding the administration of the Performance Recognition Program, particularly in

regard to the line item titled “Exemplary Performance Awards – 90 Employees. He said that this program has been very effective and recommends affirming Personnel Policy No. 36 – Performance Recognition Program as adopted on March 9, 2009.

Director Swan reported he concurs with the language in paragraph No. 4 in the policy noting that awards are to be made in an unscheduled and spontaneous manner on order to reward the employee for his/her exemplary performance in a timely manner following the event or activities which justified the recognition. He said he does not want the program to be a bonus program for employees with awards given at the end of each fiscal year. Director Withers arrived at 5:18 p.m. Following Board discussion, On MOTION by Swan, seconded and unanimously carried, Personnel Policy No. 36 – Performance Recognition Program as adopted by the Board on March 9, 2009 Performance was reaffirmed and referred to the Finance and Personnel Committee for review and possible recommendations and modification.

MICHELSON WATER RECYCLING PLANT PHASE 2 EXPANSION AND FLOOD PROTECTION IMPROVEMENTS CONTRACT CHANGE ORDER NO. 75

Director of Engineering Burton reported that the Michelson Water Recycling Plant (MWRP) Phase 2 Expansion and Flood Protection Improvements are currently being constructed by J. R. Filanc Construction Company (Filanc).

Mr. Burton reported that the abandoned Michelson Pump Station No. 1 (MPS-1) Building will be demolished to allow for additional parking and improved maintenance access within MWRP once the Phase 2 Expansion is complete. Because the MPS-1 Building is a uniquely designed room with multiple levels, it is unable to be used for storage or otherwise repurposed. Additionally, as the building has lead-based paint and asbestos-containing gaskets and insulation, this could pose potential health hazards to staff. The abandonment also includes excavation and removal of the MPS-1 inlet and outlet piping. The MPS-1 Building contains the electrical control equipment for the primary sedimentation tanks. Due to the building’s structural design, it is not possible to retain only that portion of the MPS-1 Building. Therefore, new electrical equipment will be acquired and installed outdoors in exterior cabinets adjacent to the primary sedimentation tanks.

Mr. Burton said that Contract Change Order (CCO) No. 75 consists of safe removal of hazardous materials by a licensed hazardous materials contractor, demolishing the abandoned MPS-1 Building, replacing and relocating electrical equipment that controls the existing primary sedimentation tanks, removal of underground piping, regrading the area, and new curb, gutter and asphalt paving. CCO No. 75 is for the materials and labor to perform the work for a total of \$473,570.

Director Reinhart reported that this item was reviewed and approved by the Engineering and Operations Committee on July 24, 2012. He said that the amount of change orders directly related to Phase 2 Expansion and Flood Protection Improvements is \$2,029,437 or 2.3% of the original bid. On MOTION by Reinhart, seconded and unanimously carried, **THE BOARD APPROVED CONTRACT CHANGE ORDER NO. 75 WITH J. R. FILANC CONSTRUCTION COMPANY IN THE AMOUNT OF \$473,570 TO DEMOLISH THE MICHELSON PUMP**

STATION NO. 1 BUILDING AND ASSOCIATED WORK FOR THE MICHELSON WATER RECYCLING PLANT PHASE 2 EXPANSION, PROJECTS 20124 (1599) AND 30214 (1706).

MODJESKA CANYON ROAD DOMESTIC WATER PIPELINE RELOCATION – EXPENDITURE AUTHORIZATION AND CONSTRUCTION AWARD

Executive Director of Engineering Burton reported that the Modjeska Canyon Road Domestic Water Pipeline Relocation Project will construct a replacement 8-inch domestic water pipeline in Modjeska Canyon Road and abandon the existing pipeline due to its alignment conflict with the new reinforced concrete box storm drain of the County of Orange. Mr. Burton said that the project was advertised to a select bidders list of 13 contractors and that three contractors submitting bids included GCI Construction, Inc. (GCI), Leatherwood Construction and Paulus Engineering. He said that the three bids ranged from \$196,903 to \$218,868 with the apparent low bidder being GCI with a bid of \$196,903. The engineer's estimate of \$139,400 was low on 13 of the 14 bid items. He further said that since the bids were relatively uniform and the difference between the low and high bidder is roughly 11 percent, staff believes the bids more accurately reflect the construction cost, and that the low bid is reasonable.

On MOTION by Reinhart, seconded and unanimously carried, THE BOARD APPROVED AN EXPENDITURE AUTHORIZATION IN THE AMOUNT OF \$258,500 AND AUTHORIZED THE GENERAL MANAGER TO EXECUTE A CONTRACT WITH GCI CONSTRUCTION, INC. IN THE AMOUNT OF \$196,903 FOR THE MODJESKA CANYON ROAD DOMESTIC WATER PIPELINE RELOCATION, PROJECT 11574 (1245).

WELLS 21 AND 22 DESALTER PROJECT PIPELINES CONTRACT CHANGE ORDER NO. 13 AND GEOTECHNICAL SERVICES CONTRACT VARIANCE NO. 3

The Wells 21 and 22 Pipelines Project is being constructed by Flatiron West, Inc. with Geotechnical services being provided to IRWD by Ninyo & Moore.

Director of Engineering Burton reported that Contract Change Order (CCO) No. 13 is for additional work at the Peters Canyon Wash pipeline jack and bore operation. Mr. Burton said that the original product water pipeline alignment consisted of placing two 16-inch welded steel pipes through open utility bays inside the Peters Canyon Wash bridge, and after several plan review meetings with the City of Tustin (City), City staff prohibited any work within or on the bridge structure and suggested that the pipeline be constructed under the Peters Canyon Wash flood control channel. The City, as the owner of the underlying land, agreed to grant IRWD an encroachment permit following the issuance of an additional encroachment permit by the Orange County Flood Control District (OCFCD), who owns an easement on the property.

Mr. Burton said that the decision to realign the pipeline was made when the Wells 21 and 22 Desalter Pipelines contract documents were being finalized for bid advertisement. Staff coordinated with OCFCD, finalized the pipeline re-alignment, and issued the revised plans for bidding. OCFCD and the City approved the revised pipeline alignment and issued the encroachment permits during the bidding period. Due to the timing of the pipeline realignment, site specific geotechnical information for the Peters Canyon Wash jacking and receiving pits was unavailable and not provided with the contract documents. The prospective bidders for the project

based the cost of the jack and bore pipeline work on other nearby soil borings that were performed during the early design phase of the project. Following the award of the construction contract, staff directed Ninyo & Moore, the project geotechnical engineering support consultant, to perform field investigations and laboratory testing services that defined site specific geotechnical information at the location of the jacking and receiving pits. The information provided by the additional geotechnical investigation identified an unexpected sand lens not identified in any of the previous soil borings, which resulted in the need for additional work associated with extensive unanticipated dewatering and a more extensive shoring system for the approximately 41-foot deep pits. Mr. Burton said that Flatiron initially submitted a cost proposal of \$653,253 for the additional work. Following a thorough review of the costs and extensive discussions with Flatiron, staff negotiated a change order amount to a reduced cost of \$324,053.

Mr. Burton said that during the initial pipeline work, the City requested additional pavement testing that was neither anticipated nor included in the original geotechnical services contract as well as more frequent field testing including a new requirement for sampling at the asphalt batch plant. He said that Variance No. 3 includes this additional work and ongoing geotechnical support through the completion of the project. Staff reviewed Ninyo & Moore's cost proposal and negotiated the costs in the amount of \$23,235.

Director Reinhart reported that this item was reviewed and approved by the Engineering and Operations Committee on July 24, 2012. Following discussion on the pipeline alignment, on MOTION by Reinhart, seconded and unanimously carried, **THE BOARD APPROVED AN EXPENDITURE AUTHORIZATION IN THE AMOUNT OF \$336,600; APPROVED CONTRACT CHANGE ORDER NO. 13 IN THE AMOUNT OF \$324,053 TO FLATIRON WEST, INC.; AND AUTHORIZED THE GENERAL MANAGER TO EXECUTE VARIANCE NO. 3 IN THE AMOUNT OF \$23,235 WITH NINYO & MOORE FOR GEOTECHNICAL SERVICES DURING CONSTRUCTION OF THE WELLS 21 AND 22 DESALTER PROJECT PIPELINES, PROJECT 10286 (1081).**

GENERAL MANAGER'S REPORT

General Manager Cook provided an overview of the meeting held with representatives of the Great Park Corporation noting IRWD's concerns relative to storm water capture, treatment and distribution facilities. He said that he will be providing the Board updates on future meetings with them.

Mr. Cook reported that the Association of California Cities–Orange County will be holding a City Leaders' reception on October 18, 2012 at the District's Learning Center, and invited the Board to attend.

Mr. Cook reported that for the two open seats on the Board in November, and as there is no opposition, an election will not be held, thereby saving the District an anticipated \$200,000 in election fees. In December staff will be preparing a Board resolution declaring the appointment of these two Board members.

DIRECTORS' COMMENTS

Director LaMar reported that he attended WACO's monthly meeting and noted that he will not be attending the upcoming OCBC Infrastructure meeting.

Director Reinhart reported on his attendance at a SOCWA Board meeting, a WACO meeting, a MWDOC Board workshop, and a meeting that he, General Manager Cook, and Director Matheis held with El Toro Water District relative to topics of mutual interest. He further said that he did not attend the San Bernardino County Water Conference as planned.

Director Swan reported on his attendance at a WACO meeting, and a CASA conference in Monterey.

Director Matheis said that she will be attending the upcoming Urban Water Institute conference in San Diego.

CLOSED SESSION

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

CONFERENCE WITH LABOR NEGOTIATORS - Government Code Section 54957.6
Agency Designated Representatives: Paul Cook and Janet Wells
Employee Organization: Irvine Ranch Water District Employees Association

OPEN SESSION

Following the Closed Session, the meeting was reconvened with Directors Swan, LaMar, Withers, Reinhart and Matheis present. President Matheis said that Paul Cook, Janet Wells and the District's Special Legal Counsel Jim Payne and Jim Moss are the District's Agency Designated Representatives in regard to labor negotiations with the Irvine Ranch Water District Employees Association.

ADJOURNMENT

President Matheis adjourned the meeting.

Approved and signed this 27th day of August, 2012.

President, IRVINE RANCH WATER DISTRICT

Assistant Secretary, IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

Legal Counsel - Bowie, Arneson, Wiles and Giannone

August 27, 2012
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

9/24/12 ACWA Federal Affairs Committee Meeting, Sacramento, CA
10/26/12 California Urban Water Agencies-Urban Water Forum, Sacramento, CA

Mary Aileen Matheis

8/21/12 Monthly meeting with Paul Cook regarding District activities
8/25/12 IRWD Representative - Sea & Sage 20th Anniversary Event
9/24-27/12 CSDA Annual Conference, San Diego, CA
10/25/12 IRWD Representative-Water Education Foundation 35th Anniversary Event
10/27/12 Irvine Public Schools Foundation Event
10/29-30/12 CalDesal Conference, Irvine, CA

Douglas Reinhart

9/8-11/12 WateReuse Board Meeting and WateReuse Symposium, Hollywood, FL.

John Withers

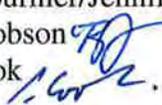
8/30/12 ISDOC Quarterly Meeting
10/27/12 Irvine Public Schools Foundation Event

RECOMMENDATION:

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

LIST OF EXHIBITS:

None

August 27, 2012  30
Prepared by: Tanja Fournier/Jennifer Davis
Submitted by: Rob Jacobson 
Approved by: Paul Cook 

CONSENT CALENDAR

JULY 2012 FINANCIAL REPORTS

SUMMARY:

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

- A. The Investment Summary Report for July 2012. This Investment Summary Report is in conformity with the 2012 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 July 31, 2012, as outlined in Exhibit "B".
- C. The Summary of Payroll ACH payments in the total amount of \$1,348,110.77, as outlined in Exhibit "C".
- D. The July 31, 2012 Disbursement Summary of the tabulation of Warrant Nos. 331397 through 331995, wire transfers, Workers' Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$23,528,361.66, as outlined in Exhibit "D".

FISCAL IMPACTS:

As of July 31, 2012, the book value of the investment portfolio was \$327,669,091, with a 0.41% rate of return and a market value of \$327,998,345. Based on the District's July 31, 2012 quarterly real estate investment rate of return of 11.29%, the District's weighted average return for the fixed income and real estate investments was 2.15%.

As of July 31, 2012, the total notional amount of the interest rate swap portfolio was \$130 million of fixed payer swaps. Cash accrual in July from all swaps was negative \$659,250 and negative \$659,250 fiscal year to date.

Payroll ACH payments totaled \$1,348,110.77 and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll and water purchases for July totaled \$23,528,361.66.

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 AND THE MONTHLY INTEREST RATE SWAP SUMMARY FOR JULY 2012; APPROVE THE JULY 2012 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$1,348,110.77, AND APPROVE THE JULY 2012 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS NOS. 331397 THROUGH 331995, WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$23,528,361.66.

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

07/31/12

PRICE	SETTLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON	YIELD	YTPC	ORIGINAL COST	CARRY VALUE	MARKET VALUE (1) 7/31/2012	UNREALIZED GAIN/(LOSS)(2)
100.12%	07/13/12			08/30/12		LAIF	State of California Tsy.	\$39,000,000		0.358%		\$39,000,000.00	\$39,000,000.00	39,047,566.08	47,566.08
100.12%	07/13/12			08/12/12		LAIF-JPA	State of California Tsy.	50,000,000		0.358%		\$50,000,000.00	\$50,000,000.00	50,060,982.15	60,982.15
100.12%	07/13/12			08/12/12		LAIF-2009A	State of California Tsy.	468,883		0.358%		\$468,882.84	\$468,882.84	469,454.71	571.87
100.12%	07/13/12			08/12/12		LAIF-2009B	State of California Tsy.	468,883		0.358%		\$468,882.84	\$468,882.84	469,454.71	571.87
100.12%	07/13/12			08/12/12		LAIF BABS	State of California Tsy.	84,113,102		0.358%		\$84,113,102.20	\$84,113,102.20	84,215,690.16	102,587.96
100.00%	07/31/12			08/01/12		B of A Tsy Reserves	Bank of America	3,604,918		0.009%		3,604,918.18	3,604,918.18	3,604,918.18	
101.03%	05/23/11	N/A	N/A	04/11/13	Aaa/AAA/AAA	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	1.720%	0.517%		5,112,550.00	5,041,328.23	5,051,650.00	10,321.77
100.08%	11/29/11	One Time	11/29/12	11/29/13	Aaa/AA+/AA+	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	0.500%	0.596%	0.690%	4,990,500.00	4,993,696.99	5,003,800.00	10,103.01
100.45%	04/24/12	N/A	N/A	12/23/13	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	0.625%	0.304%		5,026,600.00	5,022,268.75	5,022,450.00	181.25
100.00%	01/31/12	Continuous	04/27/12	01/27/14	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.350%	0.350%	0.350%	5,000,000.00	5,000,000.00	5,000,100.00	100.00
100.05%	01/30/12	Continuous	01/30/13	01/30/14	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.330%	0.355%	0.380%	4,997,500.00	4,998,129.27	5,002,500.00	4,370.73
101.72%	07/11/12	N/A	N/A	02/15/14	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	1.375%	0.301%		5,086,800.00	5,083,678.77	5,085,937.50	2,258.73
100.00%	02/09/12	Continuous	04/25/12	04/25/14	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.430%	0.430%	0.430%	5,000,000.00	5,000,000.00	5,000,150.00	150.00
100.06%	05/23/12	N/A	N/A	05/23/14	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.350%	0.394%		4,995,600.00	4,996,021.92	5,003,125.00	7,103.08
102.09%	04/18/12	N/A	N/A	05/28/14	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.375%	0.354%		5,107,250.00	5,092,625.00	5,104,600.00	11,975.00
100.02%	08/22/11	Quarterly	08/22/12	08/22/14	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.650%	0.660%	0.680%	4,998,500.00	4,998,972.18	5,000,781.00	1,808.82
100.03%	08/29/11	One Time	08/28/12	08/28/14	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.650%	0.650%	0.650%	5,000,000.00	5,000,000.00	5,001,350.00	1,350.00
100.03%	10/13/11	One Time	08/28/12	08/28/14	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.650%	0.791%	1.110%	4,980,000.00	4,985,580.95	5,001,350.00	15,769.05
100.09%	10/19/11	One Time	10/17/12	10/17/14	Aaa/AA+/NR	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	0.750%	0.801%	0.902%	4,992,500.00	4,994,467.55	5,004,600.00	10,132.45
100.20%	04/26/12	One Time	04/26/13	10/24/14	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Mortgage Bank	5,000,000	0.600%	0.425%		5,008,700.00	5,007,773.66	5,009,750.00	1,976.34
100.09%	12/19/11	Quarterly	12/19/12	12/19/14	Aaa/AA+/NR	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	0.625%	1.038%	0.625%	5,000,000.00	5,000,000.00	5,004,350.00	4,350.00
100.00%	01/31/12	Continuous	04/26/12	01/26/15	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.570%	0.570%		5,000,000.00	5,000,000.00	5,000,200.00	200.00
100.42%	01/30/12	One Time	01/30/14	01/30/15	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.750%	0.500%	0.500%	5,024,850.00	5,020,678.10	5,021,093.50	415.40
100.42%	01/30/12	One Time	01/30/14	01/30/15	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	10,000,000	0.750%	0.453%	0.453%	10,059,000.00	10,049,094.89	10,042,187.00	(6,907.89)
100.00%	02/09/12	Continuous	05/09/12	02/09/15	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.460%	0.480%	0.700%	4,997,000.00	4,997,476.28	5,000,150.00	2,673.72
100.05%	03/14/12	Continuous	09/12/12	03/12/15	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.550%	0.601%	0.855%	4,992,500.00	4,993,460.66	5,002,300.00	8,839.34
100.27%	04/18/12	Continuous	04/16/13	04/16/15	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.600%	0.617%	0.651%	4,997,500.00	4,997,740.16	5,013,281.00	15,540.84
100.16%	06/27/12	Quarterly	12/26/12	06/26/15	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	10,000,000	0.700%	0.693%	0.660%	10,002,000.00	10,001,937.72	10,016,200.00	14,262.28
100.00%	06/25/12	N/A		08/01/21	AA-/VMIG2/NR	VRDO	West Basin Water	3,850,000		0.220%		3,850,000.00	3,850,000.00	3,850,000.00	
SUB-TOTAL								\$301,505,786				\$301,875,136.06	\$301,780,717.14	\$302,109,970.98	\$329,253.84
RESTRICTED CASH (Swap Collateral Deposits)															
100.00%						Collateral Deposit	Citi-Group	\$17,098,374		0.156%		\$17,098,373.53	\$17,098,373.53	17,098,373.53	
100.00%						Collateral Deposit	Merrill Lynch	\$8,790,000		0.156%		\$8,790,000.00	\$8,790,000.00	8,790,000.00	
SUB-TOTAL								\$25,888,374				\$25,888,373.53	\$25,888,373.53	\$25,888,373.53	
TOTAL INVESTMENTS								\$327,394,160				\$327,763,509.59	\$327,669,090.67	\$327,998,344.51	
Petty Cash												3,300.00			
Bank Bal. (unrec.)												(2,804,439.94)			
												\$324,962,369.65			

- (1) LAIF market value is as of the most recent quarter-end as reported by LAIF. Security market values are determined using Bank of New York ("Trading Prices"), Bloomberg and/or broker dealer pricing.
- (2) Gain (loss) calculated against carry value using the trading value provided by Bank of New York/or Brokers
- (3) Real estate rate of return is based on most recent quarter end return

Outstanding Variable Rate Debt	\$373,660,000
Net Outstanding Variable Rate Debt (Less \$130 million fixed-payer swaps)	\$243,660,000
Investment Balance:	\$324,962,370
Investment to Variable Rate Debt Ratio:	133%
Portfolio - Average Number of Days To Maturity	354

This Investment Summary Report is in conformity with the 2012 Investment Policy and provides sufficient liquidity to meet the next six months estimated expenditures.

	Investment Portfolio	Real Estate Portfolio (3)	Weighted Avg. Return
July	0.41%	11.29%	2.15%
June	0.47%	11.29%	2.18%
Change	-0.06%		

IRVINE RANCH WATER DISTRICT
SUMMARY OF MATURITIES

07/31/12

PORTFOLIO \$327,394,160

DATE	TOTAL	%	LAIF	AGENCIES	VRDO	MONEY MARKET SAVINGS & SWEEP	Collateral * Deposit
7/12	\$207,394,160	63.35%	\$174,050,868		3,850,000	3,604,918	\$25,888,374
8/12							
9/12							
10/12							
11/12							
12/12							
1/13							
2/13							
3/13							
04/13	\$5,000,000	1.53%		5,000,000			
05/13							
6/13							
SUB-TOTAL	\$212,394,160	64.87%	\$174,050,868	5,000,000	3,850,000	3,604,918	\$25,888,374
13 Months - 3 YEARS							
7/1/2013 - 9/30/2013	-						
10/1/2013 - 12/31/2013	\$10,000,000	3.05%		10,000,000			
1/1/2014 - 3/31/2014	\$15,000,000	4.58%		15,000,000			
4/1/2014 - 6/30/2014	\$15,000,000	4.58%		15,000,000			
7/1/2014 - 9/30/2014	\$15,000,000	4.58%		15,000,000			
10/1/2014 - 12/31/2014	\$15,000,000	4.58%		15,000,000			
1/1/2015 - 3/31/2015	\$30,000,000	9.16%		30,000,000			
4/1/2015 - 6/30/2015	\$15,000,000	4.58%		15,000,000			
TOTALS	\$327,394,160	100.00%	\$174,050,868	120,000,000	3,850,000	3,604,918	\$25,888,374
% OF PORTFOLIO			53.16%	36.65%	1.18%	1.10%	7.91%

* Return of posted collateral is dependant on interest rates.

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT
INVESTMENT ACTIVITY
Jul-12

MATURITIES/SALES

PURCHASES

DATE	SECURITY TYPE	PAR	YIELD	DATE	SECURITY TYPE	PAR	YIELD
7/11/2012	FNMA	\$5,000,000	0.96%	7/11/2012	FHLMC	\$5,000,000	0.30%

LAIF ACTIVITY

07/12/12	LAIF	(\$2,000,000)
07/13/12	LAIF	\$41,940
07/13/12	LAIF	(\$2,041,940)
07/13/12	LAIF-JPA	\$44,418
07/13/12	LAIF-JPA	(\$44,418)
07/13/12	LAIF - 2009A	\$416
07/13/12	LAIF - 2009B	\$416
07/13/12	LAIF - 2010 BABS	\$79,218
	LAIF	(\$2,000,000)
	LAIF	(\$5,000,000)

Increase/(Decrease) (\$10,919,949)

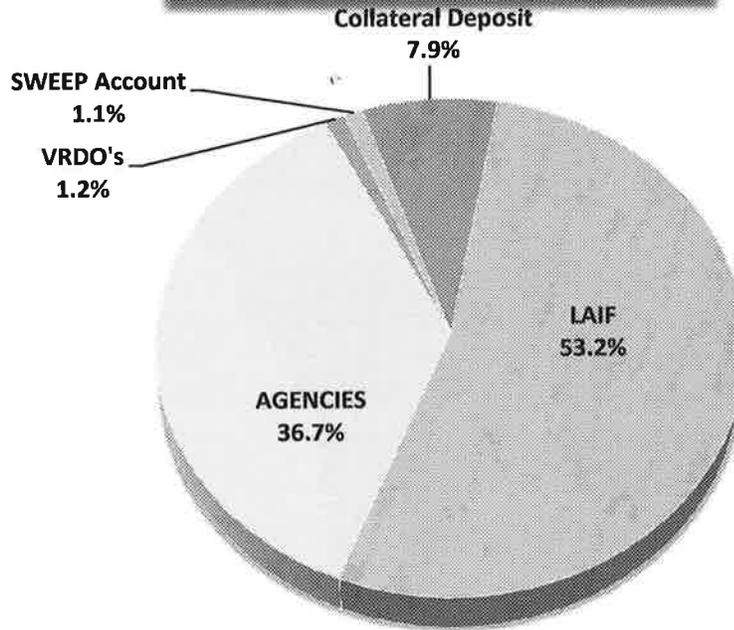
COLLATERALIZED DEPOSIT ACTIVITY

Balance Forward	\$26,653,963
CITIGROUP	(\$1,585,589)
MERRILL	<u>\$820,000</u>
Balance at 7/31	<u><u>\$25,888,374</u></u>

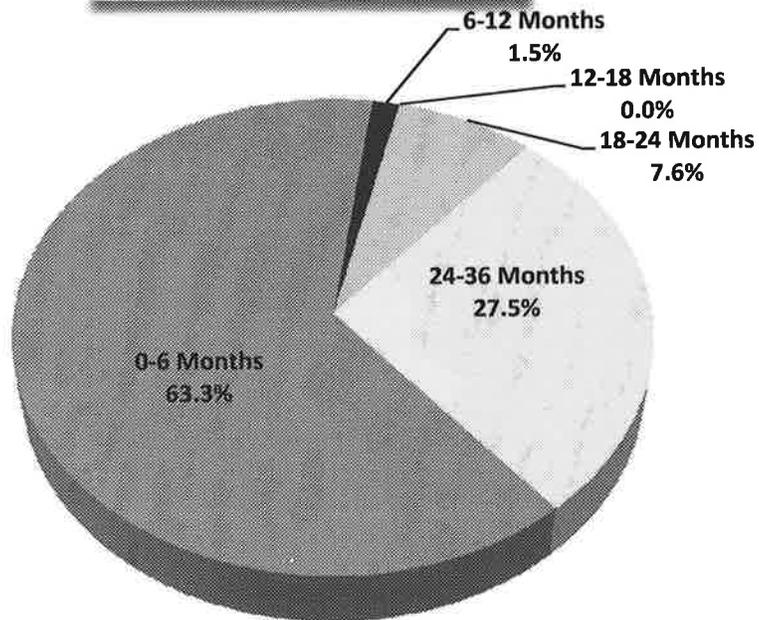
July 2012 INVESTMENT PORTFOLIO

As of July 31, 2012

Portfolio by Investment Type



Portfolio by Maturities



IRVINE RANCH WATER DISTRICT
 INVESTMENT SUMMARY REPORT

Joint Powers Agency - Investment Contracts

6/30/2012

Settlement Date	JPA Issue	Investment Contract	Original Cost	Current Par	Market Value 06/30/12
10/25/1994	JPA - Issue #1	AIG Matched Funding Corp. 7.705% Due 2-15-14	\$ 407,878,616	\$ 254,407,400	\$ 254,407,400
10/25/1994	JPA - Issue #2	Federal National Mortgage Assoc. 8.18% Due 2-15-14	\$ 518,644,189	\$ 380,043,068	\$ 425,184,584
			<u>\$ 926,522,805</u>	<u>\$ 634,450,468</u>	<u>\$ 679,591,984</u>

Irvine Ranch Water District
 Summary of Real Estate
 6/30/2012

	<u>ACQUISITION DATE</u>	<u>PROPERTY TYPE</u>	<u>OWNERSHIP INTEREST</u>	<u>ORIGINAL COST</u>	<u>RATE OF RETURN QUARTER ENDED Jun-12</u>
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$ 43,550,810	13.23%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$ 6,000,000	8.50% *
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$ 5,739,845	8.02%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$ 8,630,577	5.61%
				<u>\$ 63,921,232</u>	<u>11.29%</u>

*Original Estimate revised in June - correction to expenses increased the rate of return for June

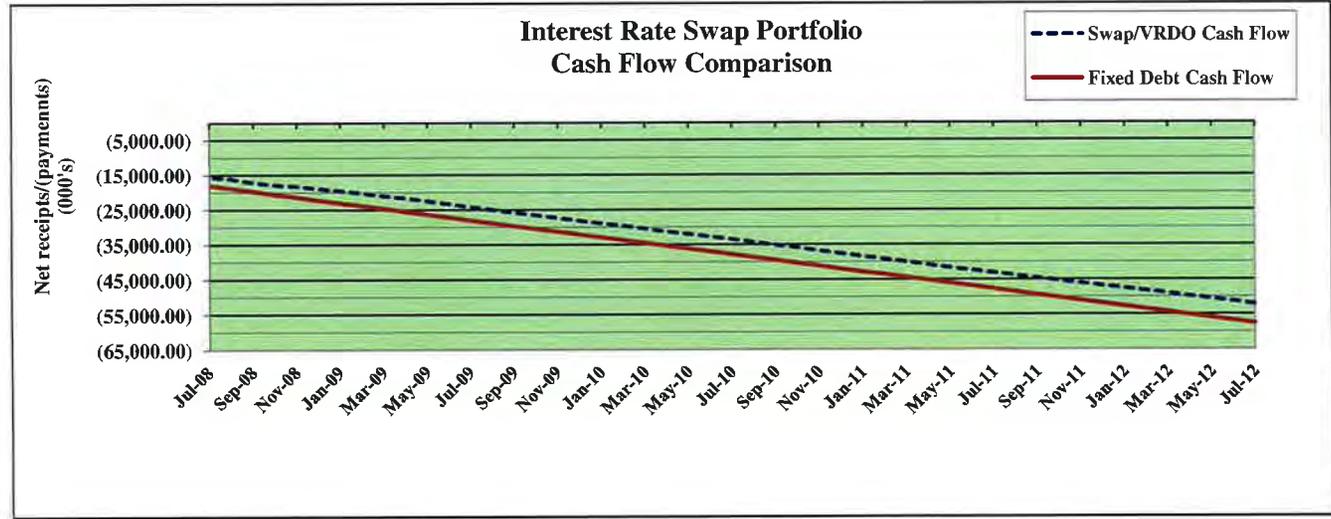
**IRVINE RANCH WATER DISTRICT
INTEREST RATE SWAP MONTHLY SUMMARY REPORT - DETAIL
July 31, 2012**

Exhibit "B"

								Prior Mo.	Current Mo.	12-Mo Avg				
								0.24%	0.24%	0.25%				
LIBOR Avg %														
Current Fiscal Year Active Swaps								Cash Flow			(Since 6/06)	Mark to Market		
Effective Date	Maturity Date	Years to Maturity	Counter Party	Notional Amt	Type	Base Index	Fixed Rate	Prior Month	Current Month	Fiscal YTD	Cumulative Cash Flow	Current Mark to Market	Notional Difference	
6/4/2006	6/4/2019	6.8	ML	\$ 20,000,000	FXP	LIBOR	6.200%	\$ (92,598)	\$ (105,884)	\$ (105,884)	\$ (5,148,731)	\$ 13,189,554	\$ (6,810,446)	
6/4/2006	6/4/2019	6.8	CG	\$ 20,000,000	FXP	LIBOR	6.200%	\$ (92,598)	\$ (105,884)	\$ (105,884)	\$ (5,148,731)	\$ 13,195,326	\$ (6,804,674)	
6/17/2006	6/17/2019	6.9	CG	\$ 30,000,000	FXP	LIBOR	6.140%	\$ (137,454)	\$ (157,198)	\$ (157,198)	\$ (7,624,485)	\$ 19,870,149	\$ (10,129,851)	
3/10/2007	3/10/2029	16.6	ML	\$ 30,000,000	FXP	LIBOR	5.687%	\$ (126,894)	\$ (145,142)	\$ (145,142)	\$ (6,698,560)	\$ 14,257,864	\$ (15,742,136)	
3/10/2007	3/10/2029	16.6	CG	\$ 30,000,000	FXP	LIBOR	5.687%	\$ (126,894)	\$ (145,142)	\$ (145,142)	\$ (6,698,560)	\$ 14,264,941	\$ (15,735,059)	
Totals/Weighted Avgs		11.4		\$ 130,000,000			5.949%	\$ (576,438)	\$ (659,250)	\$ (659,250)	\$ (31,319,068)	\$ 74,777,834	\$ (55,222,166)	
Total Current Year Active Swaps				\$ 130,000,000				\$ (576,438)	\$ (659,250)	\$ (659,250)	\$ (31,319,068)	\$ 74,777,834	\$ (55,222,166)	

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				\$ (576,438)	\$ (659,250)	\$ (659,250)	\$ (31,319,068)	\$ 74,777,834	\$ (55,222,166)



Cash Flow Comparison	
Synthetic Fixed vs. Fixed Rate Debt	
Cash Flow to Date	
Synthetic Fixed =	\$52,031,682
Fixed Rate =	\$57,585,257
Assumptions:	
- Fixed rate debt issued at 5.10% in Jun-06, and 4.93% in Mar-07 (estimated TE rates - Bloomberg)	
- 'Synthetic' includes swap cash flow + interest + fees to date	

Exhibit "C"

MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS

July
2012

DATE	AMOUNT	VENDOR	PURPOSE
7/13/2012	673,088.36	BANK OF AMERICA	PAYROLL 07/13/12
7/27/2012	675,022.41	BANK OF AMERICA	PAYROLL 07/27/12
	<u><u>\$1,348,110.77</u></u>		

Exhibit "D"

IRWD Ledger Payment Register For 01-JUL-12 To 31-JUL-12 Report Date: 02-AUG-2012 11:06
 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								
331397		05-JUL-12	Jack Justice		78.00			Negotiable
331398		05-JUL-12	Jenny Pan		38.32			Negotiable
331399		05-JUL-12	Kenneth Erwin		91.34			Negotiable
331400		05-JUL-12	Kevin Walsh		29.70			Negotiable
331401		05-JUL-12	Truc Mai Bertsch		15.00			Negotiable
331402		05-JUL-12	Zackariah Tegel		165.00			Negotiable
331403		05-JUL-12	AARP HEALTH CARE OPTIONS		210.92			Negotiable
331404		05-JUL-12	ADS LLC		1,291.00			Negotiable
331405		05-JUL-12	ALL AMERICAN ASPHALT		761.43			Negotiable
331406		05-JUL-12	ARCADIS U.S., INC.		17,464.79			Negotiable
331407		05-JUL-12	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA		31,868.20			Negotiable
331408		05-JUL-12	BAILEY, OPELIA		1,200.00			Negotiable
331409		05-JUL-12	BALLARD, CARL		1,800.00			Negotiable
331410		05-JUL-12	BANK OF NEW YORK MELLON TRUST COMPANY NA		750.00			Negotiable
331411		05-JUL-12	BILL'S SWEEPING SERVICE INC		460.00			Negotiable
331412		05-JUL-12	BIOMAGIC INC		5,855.03			Negotiable
331413		05-JUL-12	BLASICK, DIANE		1,080.00			Negotiable
331414		05-JUL-12	BOHAC CONSULTING SERVICES, INC.		360.00			Negotiable
331415		05-JUL-12	BORKMAN, CHARLES E		1,500.00			Negotiable
331416		05-JUL-12	BORROTO, JORGE		1,740.00			Negotiable
331417		05-JUL-12	BRADLEY, CARRIE		1,800.00			Negotiable
331418		05-JUL-12	BREITER, JOE		1,800.00			Negotiable
331419		05-JUL-12	BRENNTAG PACIFIC INC		12,181.66			Negotiable
331420		05-JUL-12	CALIFORNIA BARRICADE INC		3,097.50			Negotiable
331421		05-JUL-12	CELAYA, MARY		1,800.00			Negotiable
331422		05-JUL-12	CHEESMAN, ENRIQUE		1,680.00			Negotiable
331423		05-JUL-12	CHEM TECH INTERNATIONAL INC		5,478.55			Negotiable
331424		05-JUL-12	CITY OF ORANGE		259.27			Negotiable
331425		05-JUL-12	CLEAN ENERGY FUELS		1,111.47			Negotiable
331426		05-JUL-12	COASTAL IGNITION & CONTROLS, INC		31,873.27			Negotiable
331427		05-JUL-12	COMILLAS, TEOFY E		1,800.00			Negotiable
331428		05-JUL-12	COMMERCIAL CLEANING SYSTEMS INC		89.60			Negotiable

IRWD Ledger Payment Register For 01-JUL-12 To 31-JUL-12 Report Date: 02-AUG-2012 11:06
 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								
331429		05-JUL-12	CONEYBEARE INC		993.23			Negotiable
331430		05-JUL-12	CR & R INCORPORATED		11.98			Negotiable
331431		05-JUL-12	CRAWFORD, JOHN P		440.00			Negotiable
331432		05-JUL-12	CRIM, RON		1,200.00			Negotiable
331433		05-JUL-12	CSMFO		70.00			Negotiable
331434		05-JUL-12	DEAKYNE, SCOTT		750.00			Negotiable
331435		05-JUL-12	DELTA SYSTEMS ENGINEERING		25,382.53			Negotiable
331436		05-JUL-12	DENGER, LOU		1,800.00			Negotiable
331437		05-JUL-12	EDDIE V'S WILDFISH		1,526.17			Negotiable
331438		05-JUL-12	ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.		30,967.50			Negotiable
331439		05-JUL-12	ERVIN, CRAIG J		1,800.00			Negotiable
331440		05-JUL-12	EVANS-HYDRO INC		14,240.32			Negotiable
331441		05-JUL-12	FIDELITY SECURITY LIFE INSURANCE COMPANY		5,732.20			Negotiable
331442		05-JUL-12	FIRST HEALTH LIFE AND HEALTH INSURANCE COMPANY		38.70			Negotiable
331443		05-JUL-12	FLATIRON WEST INC		599,101.93			Negotiable
331444		05-JUL-12	GETSER, DON		1,800.00			Negotiable
331445		05-JUL-12	GEORGE, JAYNE		1,260.00			Negotiable
331446		05-JUL-12	GRAINGER		195.85			Negotiable
331447		05-JUL-12	HABIGER, STEVE		1,800.00			Negotiable

331448	05-JUL-12	HASSETT, MARY KAY		1,800.00	Negotiable
331449	05-JUL-12	HDR ENGINEERING INC		29,409.29	Negotiable
331450	05-JUL-12	HEANEY, DAVID		1,800.00	Negotiable
331451	05-JUL-12	HILLS, JOHN		900.00	Negotiable
331452	05-JUL-12	HOLLIDAY, MARY E		1,200.00	Negotiable
331453	05-JUL-12	HUMANA INSURANCE COMPANY		20.90	Negotiable
331454	05-JUL-12	HYDE, JIM		1,800.00	Negotiable
331455	05-JUL-12	II FUELS INC		24,767.75	Negotiable
331456	05-JUL-12	INDUSTRIAL ELECTRIC MACHINERY LLC		2,761.63	Negotiable
331457	05-JUL-12	INDUSTRIAL METAL SUPPLY CO		655.42	Negotiable
331458	05-JUL-12	INQUIPCO		5,200.00	Negotiable
331459	05-JUL-12	IRVINE PIPE & SUPPLY INC		762.33	Negotiable

IRWD Ledger Payment Register For 01-JUL-12 To 31-JUL-12 Report Date: 02-AUG-2012 11:06
 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								
331460		05-JUL-12	IRWD-PETTY CASH CUSTODIAN		720.46			Negotiable
331461		05-JUL-12	JOHANNESSEN, JOHNNIE		1,800.00			Negotiable
331462		05-JUL-12	JOHN MICHAEL COVAS		99.90			Negotiable
331463		05-JUL-12	KNUTH, MICHAEL C		900.00			Negotiable
331464		05-JUL-12	KONVES, JIM		1,560.00			Negotiable
331465		05-JUL-12	KPRS CONSTRUCTION SERVICES, INC		420.00			Negotiable
331466		05-JUL-12	L&S CONSTRUCTION INC		13,486.50			Negotiable
331467		05-JUL-12	LAYNE CHRISTENSEN COMPANY		7,396.86			Negotiable
331468		05-JUL-12	LEATHERWOOD CONSTRUCTION INC		213,917.25			Negotiable
331469		05-JUL-12	LEATHERWOOD CONSTRUCTION INC		4,432.10			Negotiable
331470		05-JUL-12	LIN, JANE		53.79			Negotiable
331471		05-JUL-12	LOCHRIDGE, DAVID		1,500.00			Negotiable
331472		05-JUL-12	LOOMIS, TERRELL		1,560.00			Negotiable
331473		05-JUL-12	LYNCH, JAN		1,000.00			Negotiable
331474		05-JUL-12	MACDONALD, BONNIE		1,740.00			Negotiable
331475		05-JUL-12	MISSION COMMUNICATIONS LLC		5,545.80			Negotiable
331476		05-JUL-12	MORALES, JACK		1,320.00			Negotiable
331477		05-JUL-12	NORTHWOOD PLACE APTS		27.04			Negotiable
331478		05-JUL-12	ON ASSIGNMENT LAB SUPPORT		2,450.70			Negotiable
331479		05-JUL-12	ORANGE COUNTY BUSINESS COUNCIL		1,500.00			Negotiable
331480		05-JUL-12	ORANGE COUNTY VECTOR CONTROL DISTRICT		228.15			Negotiable
331481		05-JUL-12	PABIS, SHARON		840.00			Negotiable
331482		05-JUL-12	PACIFIC PARTS & CONTROLS INC		934.65			Negotiable
331483		05-JUL-12	PALOMARES, JOHN		1,800.00			Negotiable
331484		05-JUL-12	PASCAL & LUDWIG CONSTRUCTORS		821,447.10			Negotiable
331485		05-JUL-12	PASCAL & LUDWIG CONSTRUCTORS		687.05			Negotiable
331486		05-JUL-12	PAULUS ENGINEERING INC		147,783.64			Negotiable
331487		05-JUL-12	PHAM, BINH T		1,740.00			Negotiable

IRWD Ledger Payment Register For 01-JUL-12 To 31-JUL-12 Report Date: 02-AUG-2012 11:06
 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								
331488		05-JUL-12	PRUDENTIAL OVERALL SUPPLY		12.36			Negotiable
331489		05-JUL-12	RAM AIR ENGINEERING INC		1,624.07			Negotiable
331490		05-JUL-12	RANCHO MARIPOSA APTS		287.95			Negotiable
331491		05-JUL-12	SANCHEZ, AL		1,400.00			Negotiable
331492		05-JUL-12	SANDERS PAVING INC		26,176.00			Negotiable
331493		05-JUL-12	SANTA ANA BLUE PRINT		99.53			Negotiable

331494	05-JUL-12	SCHEAFER, TOM		1,740.00	Negotiable
331495	05-JUL-12	SEPARATION PROCESSES INC		8,021.00	Negotiable
331496	05-JUL-12	SKIDMORE GLENN D		1,560.00	Negotiable
331497	05-JUL-12	SS MECHANICAL CORPORATION		27,863.50	Negotiable
331498	05-JUL-12	SULLY-MILLER CONTRACTING CO.		20,666.13	Negotiable
331499	05-JUL-12	SULLY-MILLER CONTRACTING CO.		392,656.41	Negotiable
331500	05-JUL-12	SULTAN, SAID		1,800.00	Negotiable
331501	05-JUL-12	SUNDBERG, RANDY		1,800.00	Negotiable
331502	05-JUL-12	TAHERI, IRAJ		1,800.00	Negotiable
331503	05-JUL-12	THOMSON, KRIS		1,440.00	Negotiable
331504	05-JUL-12	TUCKER, TOM		1,800.00	Negotiable
331505	05-JUL-12	TUSTIN CHAMBER OF COMMERCE		775.00	Negotiable
331506	05-JUL-12	UEMATSU, PATRICIA		1,080.00	Negotiable
331507	05-JUL-12	UNITED STATES POST OFFICE		1,190.00	Negotiable
331508	05-JUL-12	URS CORPORATION		3,471.45	Negotiable
331509	05-JUL-12	US PEROXIDE LLC		13,761.65	Negotiable
331510	05-JUL-12	UTILITY SYSTEMS SCIENCE & SOFTWARE INC.		1,495.00	Negotiable
331511	05-JUL-12	VELAZQUEZ, LORETTA		1,800.00	Negotiable
331512	05-JUL-12	VPSI INC		9,963.06	Negotiable
331513	05-JUL-12	WALKER, JOHN		1,800.00	Negotiable
331514	05-JUL-12	WALSH, SANDY		1,140.00	Negotiable
331515	05-JUL-12	WESTERN EXTERMINATOR COMPANY		7,749.50	Negotiable
331516	09-JUL-12	STATE WATER RESOURCES CONTROL BOARD	SACRAMENTO	194,145.30	Negotiable

IRWD Ledger Payment Register For 01-JUL-12 To 31-JUL-12 Report Date: 02-AUG-2012 11:06
 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								
331517		10-JUL-12	CALPERS	SACRAMENTO	4,257,316.00			Negotiable
331518		11-JUL-12	ORANGE COUNTY SANITATION DISTRICT	FOUNTAIN VALLEY	1,500.00			Negotiable
331519		12-JUL-12	Alejandro Garcia		130.00			Negotiable
331520		12-JUL-12	David Chaney		212.00			Negotiable
331521		12-JUL-12	Douglas Reinhart		401.11			Negotiable
331522		12-JUL-12	Jenny Pan		58.41			Negotiable
331523		12-JUL-12	Lars Oldewage		39.60			Negotiable
331524		12-JUL-12	Peer Swan		565.13			Negotiable
331525		12-JUL-12	Pio Reynoso		215.00			Negotiable
331526		12-JUL-12	Ricky Ruiz		150.00			Negotiable
331527		12-JUL-12	Steven LaMar		27.49			Negotiable
331528		12-JUL-12	Truc Mai Bertsch		15.00			Negotiable
331529		12-JUL-12	A & Y ASPHALT CONTRACTORS INC		11,777.00			Negotiable
331530		12-JUL-12	ACTION ELECTRIC CORP		1,654.18			Negotiable
331531		12-JUL-12	ADS LLC		1,936.50			Negotiable
331532		12-JUL-12	ADT SECURITY SERVICES INC		2,145.14			Negotiable
331533		12-JUL-12	ADVANCED CALIBRATION DESIGNS INC		1,083.00			Negotiable
331534		12-JUL-12	AGUILAR, RYAN		854.15			Negotiable
331535		12-JUL-12	ATRGAS-WEST, INC.		1,260.87			Negotiable
331536		12-JUL-12	ALEXANDER CONTRACT SERVICES INC		99,809.12			Negotiable
331537		12-JUL-12	AMERICAN MESSAGING SERVICES LLC		297.73			Negotiable
331538		12-JUL-12	ANTHEM BLUE CROSS		525.96			Negotiable
331539		12-JUL-12	APCO GRAPHICS INC		107.75			Negotiable
331540		12-JUL-12	APD CONSULTANTS INC		3,321.40			Negotiable
331541		12-JUL-12	AT&T		6,690.05			Negotiable
331542		12-JUL-12	AT&T		102.58			Negotiable
331543		12-JUL-12	ATHENS SERVICES		1,983.12			Negotiable
331544		12-JUL-12	BENCH-CRAFT, INC.		5,278.67			Negotiable
331545		12-JUL-12	BILL'S SWEEPING SERVICE INC		805.00			Negotiable
331546		12-JUL-12	BORCHARD SURVEYING & MAPPING, INC.		2,647.50			Negotiable
331547		12-JUL-12	C WELLS PIPELINE MATERIALS INC		11,454.91			Negotiable

IRWD Ledger Payment Register For 01-JUL-12 To 31-JUL-12 Report Date: 02-AUG-2012 11:06
 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								
331548		12-JUL-12	CAL WATER PURIFICATION		80.00			Negotiable
331549		12-JUL-12	CALIFORNIA BARRICADE INC		7,657.50			Negotiable
331550		12-JUL-12	CAMFIL FARR INC		559.79			Negotiable
331551		12-JUL-12	CANON BUSINESS SOLUTIONS INC		1,389.97			Negotiable
331552		12-JUL-12	CANON FINANCIAL SERVICES INC		7,090.20			Negotiable
331553		12-JUL-12	CARL WARREN & CO		1,938.63			Negotiable
331554		12-JUL-12	CDW GOVERNMENT LLC		6,764.38			Negotiable
331555		12-JUL-12	CITY OF TUSTIN		662.66			Negotiable
331556		12-JUL-12	CLA-VAL COMPANY		2,058.48			Negotiable
331557		12-JUL-12	CLEAN ENERGY FUELS		1,082.76			Negotiable
331558		12-JUL-12	CLEARINGHOUSE		528.45			Negotiable
331559		12-JUL-12	CNC ENGINEERING, INC		165.00			Negotiable
331560		12-JUL-12	COAST PLUMBING HEATING AND AIR, INC		152.85			Negotiable
331561		12-JUL-12	COASTAL IGNITION & CONTROLS, INC		4,766.87			Negotiable
331562		12-JUL-12	COMMERCIAL CLEANING SYSTEMS INC		10,973.99			Negotiable
331563		12-JUL-12	CONDITION MONITORING SERVICES INC		200.00			Negotiable
331564		12-JUL-12	CONEYBEARE INC		6,265.12			Negotiable
331565		12-JUL-12	CONTROLLED KEY SYSTEMS INC		861.44			Negotiable
331566		12-JUL-12	CORELOGIC INC		36.00			Negotiable
331567		12-JUL-12	CORTECH ENGINEERING, INC		4,051.95			Negotiable
331568		12-JUL-12	CR & R INCORPORATED		12.20			Negotiable
331569		12-JUL-12	CREDENTIAL CHECK CORPORATION		256.14			Negotiable
331570		12-JUL-12	CRUMP & CO, INC.		2,079.71			Negotiable
331571		12-JUL-12	CYBERNETICS		20,441.00			Negotiable
331572		12-JUL-12	D & G SIGNS		522.59			Negotiable
331573		12-JUL-12	DATA CLEAN CORPORATION		513.25			Negotiable
331574		12-JUL-12	DISCOVERY SCIENCE CENTER		6,102.72			Negotiable

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 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								
331575		12-JUL-12	EAST ORANGE COUNTY WATER DISTRICT		1,644.76			Negotiable
331576		12-JUL-12	EI&C ENGINEERING INC		3,990.00			Negotiable
331577		12-JUL-12	EMPLOYEE BENEFIT SPECIALIST, INC		680.00			Negotiable
331578		12-JUL-12	EXPRESSAIR		142.40			Negotiable
331579		12-JUL-12	FEDEX		225.96			Negotiable
331580		12-JUL-12	FERGUSON WATERWORKS		2,716.85			Negotiable
331581		12-JUL-12	FIRST CHOICE SERVICES		783.81			Negotiable
331582		12-JUL-12	FISERV		289.00			Negotiable
331583		12-JUL-12	FISHER SCIENTIFIC COMPANY LLC		4,408.34			Negotiable
331584		12-JUL-12	FORTIS RESOURCE PARTNERS INC		9,503.86			Negotiable
331585		12-JUL-12	FRANCHISE TAX BOARD		250.00			Negotiable
331586		12-JUL-12	FT ZIEBARTH COMPANY		145,416.24			Negotiable
331587		12-JUL-12	GANAHL LUMBER CO.		380.26			Negotiable
331588		12-JUL-12	GEMS SENSORS, INC.		1,194.13			Negotiable
331589		12-JUL-12	GOOGLE INC.		1,085.28			Negotiable
331590		12-JUL-12	GRAINGER		283.79			Negotiable
331591		12-JUL-12	HAMILTON, KURT		1,127.55			Negotiable
331592		12-JUL-12	HARMSWORTH ASSOCIATES		3,647.50			Negotiable
331593		12-JUL-12	HARRINGTON INDUSTRIAL PLASTICS LLC		1,021.47			Negotiable
331594		12-JUL-12	HEWLETT PACKARD CO		17,839.92			Negotiable

331595	12-JUL-12	HILL BROTHERS CHEMICAL COMPANY		10,805.40		Negotiable
331596	12-JUL-12	HOME DEPOT USA INC		5,943.67		Negotiable
331597	12-JUL-12	HUANG, PEII		21.70		Negotiable
331598	12-JUL-12	HUNSAKER & ASSOCIATES IRVINE		1,344.00		Negotiable
331599	12-JUL-12	IBM CORPORATION		8,340.57		Negotiable
331600	12-JUL-12	IDEXX DISTRIBUTION, INC		4,331.55		Negotiable
331601	12-JUL-12	INTERFACE SYSTEMS		8,900.00		Negotiable
331602	12-JUL-12	INTERNAL REVENUE SERVICE		1,462.79		Negotiable
331603	12-JUL-12	IRVINE PIPE & SUPPLY INC		101.90		Negotiable

IRWD Ledger Payment Register For 01-JUL-12 To 31-JUL-12 Report Date: 02-AUG-2012 11:06
 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								
331604		12-JUL-12	IRWD-PETTY CASH CUSTODIAN		530.31			Negotiable
331605		12-JUL-12	JCI JONES CHEMICALS INC		4,492.40			Negotiable
331606		12-JUL-12	JOHN G. ALEVIOS D.O. INC.		70.00			Negotiable
331607		12-JUL-12	KELLY SERVICES INC		766.08			Negotiable
331608		12-JUL-12	LABELLE-MARVIN INC		9,820.00			Negotiable
331609		12-JUL-12	LCS TECHNOLOGIES, INC.		5,750.00			Negotiable
331610		12-JUL-12	LYONS, DAVID		237.10			Negotiable
331611		12-JUL-12	MC MASTER CARR SUPPLY CO		1,580.50			Negotiable
331612		12-JUL-12	MCCROMETER, INC.		5,166.82			Negotiable
331613		12-JUL-12	MEGGER		251.07			Negotiable
331614		12-JUL-12	MISCOWATER		494.73			Negotiable
331615		12-JUL-12	MOBILE MODULAR MANAGEMENT CORPORATION		1,108.75			Negotiable
331616		12-JUL-12	MYERS & SONS HI- WAY SAFETY, INC.		2,713.15			Negotiable
331617		12-JUL-12	NEWAGE INDUSTRIES INC		139.44			Negotiable
331618		12-JUL-12	NINYO & MOORE		4,143.00			Negotiable
331619		12-JUL-12	NOVELL INC		41,582.00			Negotiable
331620		12-JUL-12	OLIN CORPORATION		10,222.00			Negotiable
331621		12-JUL-12	ON ASSIGNMENT LAB SUPPORT		1,151.44			Negotiable
331622		12-JUL-12	ONESOURCE DISTRIBUTORS LLC		459.27			Negotiable
331623		12-JUL-12	ORANGE COUNTY TAXPAYERS ASSOCIATION		150.00			Negotiable
331624		12-JUL-12	ORANGE COUNTY TREASURER		2,900.00			Negotiable
331625		12-JUL-12	PACIFIC COAST TOOL & SUPPLY		1,850.07			Negotiable
331626		12-JUL-12	PACIFIC TECHNOLOGIES INC		6,214.50			Negotiable
331627		12-JUL-12	PATTEN SYSTEMS INC		569.81			Negotiable
331628		12-JUL-12	PERS LONG TERM CARE		1,618.59			Negotiable
331629		12-JUL-12	POLLARDWATER.COM		5,924.09			Negotiable
331630		12-JUL-12	PRAXAIR DISTRIBUTION INC		640.71			Negotiable

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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								
331631		12-JUL-12	PROCESS EQUIPMENT COMPANY		19,621.92			Negotiable
331632		12-JUL-12	PRUDENTIAL OVERALL SUPPLY		23.25			Negotiable
331633		12-JUL-12	PFI SAND & GRAVEL INC		1,319.23			Negotiable
331634		12-JUL-12	QUINN POWER SYSTEMS		837.07			Negotiable
331635		12-JUL-12	RAINBOW DISPOSAL CO INC		482.22			Negotiable
331636		12-JUL-12	RAM AIR ENGINEERING INC		7,121.01			Negotiable
331637		12-JUL-12	RBF CONSULTING		5,991.94			Negotiable
331638		12-JUL-12	REACH EMPLOYEE		785.20			Negotiable

331639	12-JUL-12	ASSISTANCE INC		1,975.89	Negotiable
331640	12-JUL-12	REED, JAMES D RESPONSE ENVELOPE, INC		4,373.03	Negotiable
331641	12-JUL-12	RHODIA INC		9,204.60	Negotiable
331642	12-JUL-12	RINGCLEAR LLC		103.44	Negotiable
331643	12-JUL-12	ROBISON, JACKIE		6.60	Negotiable
331644	12-JUL-12	RYAN HERCO		1,055.85	Negotiable
331645	12-JUL-12	PRODUCTS CORP SATC ENERGY, ENVIRONMENT & INFRASTRUCTURE LLC		7,638.91	Negotiable
331646	12-JUL-12	SANTA ANA WATERSHED PROJECT		6,725.00	Negotiable
331647	12-JUL-12	SANTIAGO AQUEDUCT COMMISSION		41,617.96	Negotiable
331648	12-JUL-12	SARBS-CALIFORNIA WATER		370.00	Negotiable
331649	12-JUL-12	SEAL ANALYTICAL INC		1,188.74	Negotiable
331650	12-JUL-12	SHAMROCK SUPPLY CO INC		1,829.83	Negotiable
331651	12-JUL-12	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		426.41	Negotiable
331652	12-JUL-12	SOUTH COAST WATER CO.		191.66	Negotiable
331653	12-JUL-12	SOUTHERN CALIFORNIA EDISON COMPANY		52,730.68	Negotiable

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR 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								
331654		12-JUL-12	SOUTHERN CALIFORNIA SECURITY CENTER, INC.		1,788.43			Negotiable
331655		12-JUL-12	SOUTHERN COUNTIES LUBRICANTS LLC		1,473.67			Negotiable
331656		12-JUL-12	SPARLING INSTRUMENTS LLC		388.79			Negotiable
331657		12-JUL-12	STANDARD & POOR'S FINANCIAL SERVICES LLC		3,500.00			Negotiable
331658		12-JUL-12	STANTEC CONSULTING SERVICES INC.		3,701.75			Negotiable
331659		12-JUL-12	STEEL UNLIMITED INC		936.23			Negotiable
331660		12-JUL-12	STERIS CORPORATION		6,869.79			Negotiable
331661		12-JUL-12	STEVEN ENTERPRISES INC		523.20			Negotiable
331662		12-JUL-12	SUPERMEDIA LLC		71.25			Negotiable
331663		12-JUL-12	THE GAS COMPANY		646.08			Negotiable
331664		12-JUL-12	THOMAS HARDER & CO		4,170.00			Negotiable
331665		12-JUL-12	U S RIGGING SUPPLY		910.36			Negotiable
331666		12-JUL-12	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA		702.00			Negotiable
331667		12-JUL-12	UNITED PARCEL SERVICE INC		65.99			Negotiable
331668		12-JUL-12	UNITED SITE SERVICES OF CALIFORNIA INC		483.52			Negotiable
331669		12-JUL-12	UNITED STATES POST OFFICE		25,000.00			Negotiable
331670		12-JUL-12	UNITED STATES POSTAL SERVICE		83.35			Negotiable
331671		12-JUL-12	UNITED WAY OF ORANGE COUNTY		910.00			Negotiable
331672		12-JUL-12	URS CORPORATION		26,305.00			Negotiable
331673		12-JUL-12	VULCAN MATERIALS COMPANY		1,235.32			Negotiable
331674		12-JUL-12	VWR INTERNATIONAL, LLC		775.60			Negotiable
331675		12-JUL-12	WALTERS WHOLESALE ELECTRIC		99.13			Negotiable
331676		12-JUL-12	WASTE MANAGEMENT OF ORANGE COUNTY		2,963.92			Negotiable

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 11
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
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331724	19-JUL-12	EXPRESSAIR	151.40	Negotiable
331725	19-JUL-12	FEDEX	281.76	Negotiable
331726	19-JUL-12	FISHER SCIENTIFIC COMPANY LLC	3,459.89	Negotiable
331727	19-JUL-12	FIVE POINT PARTNERS LLC	7,137.90	Negotiable
331728	19-JUL-12	FLEET SOLUTIONS LLC	3,992.00	Negotiable
331729	19-JUL-12	FORTIS RESOURCE PARTNERS INC	5,773.40	Negotiable

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 13
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
331730		19-JUL-12	GANAHL LUMBER CO.		2,756.25			Negotiable
331731		19-JUL-12	GATEWAY PACIFIC CONTRACTORS, INC.		78,423.48			Negotiable
331732		19-JUL-12	GATEWAY PACIFIC CONTRACTORS, INC.		3,783.72			Negotiable
331733		19-JUL-12	GCI CONSTRUCTION, INC.		88,830.79			Negotiable
331734		19-JUL-12	GEEL, STEPHEN		107.85			Negotiable
331735		19-JUL-12	GENTERRA CONSULTANTS INC		2,227.50			Negotiable
331736		19-JUL-12	GMU GEOTECHNICAL INC		7,956.40			Negotiable
331737		19-JUL-12	GRAINGER		2,278.15			Negotiable
331738		19-JUL-12	HACH COMPANY		5,854.32			Negotiable
331739		19-JUL-12	HASLER		5,091.22			Negotiable
331740		19-JUL-12	HILL BROTHERS CHEMICAL COMPANY		3,017.50			Negotiable
331741		19-JUL-12	HOME DEPOT USA INC		352.30			Negotiable
331742		19-JUL-12	HORIZON TECHNOLOGY INC		702.03			Negotiable
331743		19-JUL-12	HUNSAKER & ASSOCIATES IRVINE		3,752.01			Negotiable
331744		19-JUL-12	IBM CORPORATION		41,710.62			Negotiable
331745		19-JUL-12	INDUSTRIAL ELECTRIC MACHINERY LLC		1,906.77			Negotiable
331746		19-JUL-12	INDUSTRIAL METAL SUPPLY CO		25.94			Negotiable
331747		19-JUL-12	INQUIPCO		1,012.50			Negotiable
331748		19-JUL-12	IRON MOUNTAIN INFORMATION MANAGEMENT INC		445.03			Negotiable
331749		19-JUL-12	IRVINE PIPE & SUPPLY INC		238.17			Negotiable
331750		19-JUL-12	JACOBS, KELLY		70.00			Negotiable
331751		19-JUL-12	JOHN G. ALEVIZOS D.O. INC.		163.53			Negotiable
331752		19-JUL-12	JOHNSTONE SUPPLY		2,400.00			Negotiable
331753		19-JUL-12	KEITH, STEVE		851.20			Negotiable
331754		19-JUL-12	KELLY SERVICES INC		325.00			Negotiable
331755		19-JUL-12	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES		2,171.50			Negotiable
331756		19-JUL-12	KOELLER NEBEKER CARLSON & HALUCK, LLP					Negotiable

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 14
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
331757		19-JUL-12	KS DIRECT LLC		3,349.96			Negotiable
331758		19-JUL-12	LSA ASSOCIATES INC		472.50			Negotiable
331759		19-JUL-12	LUBRICATION ENGINEERS, INC.		3,250.00			Negotiable
331760		19-JUL-12	MBC APPLIED ENVIRONMENTAL SCIENCES		1,000.00			Negotiable
331761		19-JUL-12	MBF CONSULTING, INC.		16,724.48			Negotiable
331762		19-JUL-12	MC FADDEN-DALE INDUSTRIAL		9.16			Negotiable
331763		19-JUL-12	MC MASTER CARR SUPPLY CO		1,666.99			Negotiable
331764		19-JUL-12	MERCHANTS LANDSCAPE SERVICES INC		7,280.00			Negotiable
331765		19-JUL-12	MGH PAINTING INC		1,131.90			Negotiable

331766	19-JUL-12	MISCOWATER		49,193.26	Negotiable
331767	19-JUL-12	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY		44,093.00	Negotiable
331768	19-JUL-12	MUTUAL PROPANE		54.00	Negotiable
331769	19-JUL-12	MWH AMERICAS INC		350.00	Negotiable
331770	19-JUL-12	NATIONAL READY MIXED CONCRETE CO		304.94	Negotiable
331771	19-JUL-12	NORITSU AMERICA CORPORATION		480.00	Negotiable
331772	19-JUL-12	OLIN CORPORATION		7,476.21	Negotiable
331773	19-JUL-12	ON ASSIGNMENT LAB SUPPORT		6,659.68	Negotiable
331774	19-JUL-12	ONESOURCE DISTRIBUTORS LLC		1,506.94	Negotiable
331775	19-JUL-12	ORACLE AMERICA, INC.		102,577.97	Negotiable
331776	19-JUL-12	ORANGE COUNTY SANITATION DISTRICT		1,570.00	Negotiable
331777	19-JUL-12	ORANGE COUNTY TREASURER		8,283.00	Negotiable
331778	19-JUL-12	ORANGE COUNTY VECTOR CONTROL DISTRICT		1,210.35	Negotiable
331779	19-JUL-12	ORANGE, COUNTY OF		24,655.54	Negotiable
331780	19-JUL-12	PACIFIC PARTS & CONTROLS INC		2,384.55	Negotiable

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 15
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
331781		19-JUL-12	PAPER DEPOT DOCUMENT DESTRUCTION LLC		870.20			Negotiable
331782		19-JUL-12	PAULUS ENGINEERING INC		132,834.17			Negotiable
331783		19-JUL-12	PINNACLE LANDSCAPE COMPANY		159.90			Negotiable
331784		19-JUL-12	PINNACLE TOWERS LLC		569.34			Negotiable
331785		19-JUL-12	PMK ASSOCIATES INC		2,000.00			Negotiable
331786		19-JUL-12	PRAXAIR DISTRIBUTION INC		165.44			Negotiable
331787		19-JUL-12	PRINCIPAL LIFE INSURANCE		23,798.00			Negotiable
331788		19-JUL-12	PRIORITY MAILING SYSTEMS LLC		171.32			Negotiable
331789		19-JUL-12	PSB THE MARKETING SUPERSOURCE		2,545.59			Negotiable
331790		19-JUL-12	PSOMAS		9,500.59			Negotiable
331791		19-JUL-12	PURE EFFECT INC		5,945.00			Negotiable
331792		19-JUL-12	QUALITY ENVIRONMENTAL CONTAINERS		1,271.58			Negotiable
331793		19-JUL-12	RBF CONSULTING		323.66			Negotiable
331794		19-JUL-12	SANTA ANA BLUE PRINT		59.44			Negotiable
331795		19-JUL-12	SANTA ANA CITY OF		49.73			Negotiable
331796		19-JUL-12	SANTA MARGARITA WATER DISTRICT		23,005.52			Negotiable
331797		19-JUL-12	SAPETTO GROUP INC		1,125.00			Negotiable
331798		19-JUL-12	SECURTEC DISTRICT PATROL INC		3,700.00			Negotiable
331799		19-JUL-12	SIGMA-ALDRICH INC		224.90			Negotiable
331800		19-JUL-12	SOLARBEE INC		15,082.00			Negotiable
331801		19-JUL-12	SOUTH COAST ANSWERING SERVICE		598.75			Negotiable
331802		19-JUL-12	SOUTHERN CALIFORNIA EDISON COMPANY		1,149.00			Negotiable
331803		19-JUL-12	SOUTHERN CALIFORNIA EDISON COMPANY		191,102.29			Negotiable
331804		19-JUL-12	SOUTHERN CALIFORNIA SECURITY CENTER, INC.		233.44			Negotiable

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 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								

331805	19-JUL-12	SPARKLETTS		106.26	Negotiable
331806	19-JUL-12	STATE BOARD OF EQUALIZATION		823.58	Negotiable
331807	19-JUL-12	TADA, MASATOSHI		447.34	Negotiable
331808	19-JUL-12	TEKRAULICS		9,762.81	Negotiable
331809	19-JUL-12	TETRA TECH, INC		7,540.00	Negotiable
331810	19-JUL-12	THE GAS COMPANY		2,748.81	Negotiable
331811	19-JUL-12	THE MARLIN COMPANY		962.94	Negotiable
331812	19-JUL-12	THYSSENKRUPP ELEVATOR		210.87	Negotiable
331813	19-JUL-12	TROPICAL PLAZA NURSERY INC		1,400.00	Negotiable
331814	19-JUL-12	U.S. BANK NATIONAL ASSOCIATION		1,400.00	Negotiable
331815	19-JUL-12	UNITED PARCEL SERVICE INC		20.00	Negotiable
331816	19-JUL-12	V&A CONSULTING ENGINEERS		3,976.00	Negotiable
331817	19-JUL-12	VANCIU ELECTRIC INC		12,000.00	Negotiable
331818	19-JUL-12	VATAN PARAST, SHOOKA		46.30	Negotiable
331819	19-JUL-12	VWR INTERNATIONAL, LLC		4,457.69	Negotiable
331820	19-JUL-12	W DESIGN ASSOCIATES INC		3,750.00	Negotiable
331821	19-JUL-12	W.M. LYLES CO		622,400.79	Negotiable
331822	19-JUL-12	WALTERS WHOLESALE ELECTRIC		19.14	Negotiable
331823	19-JUL-12	WAXIE'S ENTERPRISES, INC		2,682.46	Negotiable
331824	19-JUL-12	WECK LABORATORIES INC		225.00	Negotiable
331825	19-JUL-12	WESTERN EXTERMINATOR COMPANY		6,799.50	Negotiable
331826	19-JUL-12	XYLEM DEWATERING SOLUTIONS INC		2,366.19	Negotiable
331827	19-JUL-12	XYLEM WATER SOLUTIONS USA INC		2,418.59	Negotiable
331828	19-JUL-12	YORKE ENGINEERING LLC		7,924.87	Negotiable
331829	24-JUL-12	IRWD-PETTY CASH CUSTODIAN	IRVINE	1,083.97	Negotiable
331830	26-JUL-12	ASHFORD, WALT	PURCHASE	539.04	Negotiable
331831	26-JUL-12	Chris Kinner		83.00	Negotiable

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 17
 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								
331832		26-JUL-12	David Perez		70.00			Negotiable
331833		26-JUL-12	Gabriel Vargas		80.00			Negotiable
331834		26-JUL-12	Gretchen Maswadeh		41.80			Negotiable
331835		26-JUL-12	James Lassalette		75.00			Negotiable
331836		26-JUL-12	Jenny Pan		54.50			Negotiable
331837		26-JUL-12	Karen Bonecki		47.37			Negotiable
331838		26-JUL-12	Matthew Daniel		205.00			Negotiable
331839		26-JUL-12	Matthew Wiese		118.50			Negotiable
331840		26-JUL-12	Mattias Velardes		200.00			Negotiable
331841		26-JUL-12	Michele Drzymkowski		132.00			Negotiable
331842		26-JUL-12	Rodolfo Perez		75.00			Negotiable
331843		26-JUL-12	Todd Sinclair		80.00			Negotiable
331844		26-JUL-12	Truc Mai Bertsch		19.29			Negotiable
331845		26-JUL-12	A & Y ASPHALT CONTRACTORS INC		69,777.00			Negotiable
331846		26-JUL-12	AAF INTERNATIONAL		1,118.30			Negotiable
331847		26-JUL-12	ACTION ELECTRIC CORP		154.49			Negotiable
331848		26-JUL-12	AIRGAS-WEST, INC.		414.34			Negotiable
331849		26-JUL-12	AQUA BEN CORPORATION		33,679.42			Negotiable
331850		26-JUL-12	ARMORCAST PRODUCTS COMPANY		7,776.86			Negotiable
331851		26-JUL-12	AT&T		47.67			Negotiable
331852		26-JUL-12	AT&T		2,526.17			Voided
331853		26-JUL-12	AT&T		8,077.50			Negotiable
331854		26-JUL-12	ATECH ENGINEERING & MFG INC		560.30			Negotiable
331855		26-JUL-12	BATTERY SPECIALTIES		6,378.12			Negotiable
331856		26-JUL-12	BOHAC CONSULTING SERVICES, INC.		90.00			Negotiable
331857		26-JUL-12	BORCHARD SURVEYING & MAPPING, INC.		6,212.50			Negotiable
331858		26-JUL-12	BOWIE, ARNESON, WILES & GIANNONE		27,338.33			Negotiable

331859	26-JUL-12	BRITHINEE ELECTRIC		8,560.30	Negotiable
331860	26-JUL-12	BRUCE NEWELL		1,316.00	Negotiable
331861	26-JUL-12	C WELLS PIPELINE MATERIALS INC		2,874.77	Negotiable
331862	26-JUL-12	CALIFORNIA BARRICADE INC		2,817.50	Negotiable
331863	26-JUL-12	CALIFORNIA MUNICIPAL STATISTICS INC		500.00	Negotiable

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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								
331864		26-JUL-12	CITY OF IRVINE		162.00			Negotiable
331865		26-JUL-12	CITY OF LAKE FOREST		375,505.78			Negotiable
331866		26-JUL-12	CITY OF TUSTIN		1,310.00			Negotiable
331867		26-JUL-12	COAST PLUMBING HEATING AND AIR, INC		59.95			Negotiable
331868		26-JUL-12	COASTAL TRAFFIC SYSTEMS, INC		510.00			Negotiable
331869		26-JUL-12	COMMERCE ENERGY INC		314.97			Negotiable
331870		26-JUL-12	COMMERCIAL CLEANING SYSTEMS INC		240.00			Negotiable
331871		26-JUL-12	CONEYBEARE INC		887.40			Negotiable
331872		26-JUL-12	DAN'S MACHINE TOOL, INC		1,246.03			Negotiable
331873		26-JUL-12	DATASITE INC		1,922.00			Negotiable
331874		26-JUL-12	DCSE INC		5,070.00			Negotiable
331875		26-JUL-12	DIRECTV INC		89.99			Negotiable
331876		26-JUL-12	EAST ORANGE COUNTY WATER DISTRICT		1,079.71			Negotiable
331877		26-JUL-12	EISEL ENTERPRISES INC		10,263.83			Negotiable
331878		26-JUL-12	ENVIRONMENTAL RESOURCE ASSOCIATES		698.73			Negotiable
331879		26-JUL-12	EXPRESSAIR		155.00			Negotiable
331880		26-JUL-12	FARRELL & ASSOCIATES		86.45			Negotiable
331881		26-JUL-12	FEDEX		180.13			Negotiable
331882		26-JUL-12	FIRE EXTINGUISHING SAFETY		11,111.31			Negotiable
331883		26-JUL-12	FIRST CHOICE SERVICES		527.35			Negotiable
331884		26-JUL-12	FISERV		11,386.59			Negotiable
331885		26-JUL-12	FISHER SCIENTIFIC COMPANY LLC		8,864.85			Negotiable
331886		26-JUL-12	FORTIS RESOURCE PARTNERS INC		19,751.70			Negotiable
331887		26-JUL-12	FRONTLINE MANAGEMENT INC		126.91			Negotiable
331888		26-JUL-12	GRAINGER		1,107.01			Negotiable
331889		26-JUL-12	HANSON BRIDGETT LLP		10,795.18			Negotiable

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 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								
331890		26-JUL-12	HARMSWORTH ASSOCIATES		2,692.50			Negotiable
331891		26-JUL-12	HARPER & ASSOCIATES ENGINEERING INC		15,495.00			Negotiable
331892		26-JUL-12	HENRY PRATT COMPANY		919.31			Negotiable
331893		26-JUL-12	HEWITT ASSOCIATES LLC		4,320.00			Negotiable
331894		26-JUL-12	HILL BROTHERS CHEMICAL COMPANY		1,833.36			Negotiable
331895		26-JUL-12	HOME DEPOT USA INC		1,818.66			Negotiable
331896		26-JUL-12	HOSE SOLUTIONS INC.		607.71			Negotiable
331897		26-JUL-12	IRVINE PIPE & SUPPLY INC		879.93			Negotiable
331898		26-JUL-12	IRWD-PETTY CASH CUSTODIAN		530.06			Negotiable
331899		26-JUL-12	KILEY COMPANY		4,000.00			Negotiable

331900	26-JUL-12	KIM, SOON TAE	4,550.00	Negotiable
331901	26-JUL-12	LAGUNA BEACH COUNTY WATER DISTRICT	1,002.15	Negotiable
331902	26-JUL-12	LAYNE CHRISTENSEN COMPANY	7,285.37	Negotiable
331903	26-JUL-12	MALCOLM PIRNIE INC	70,051.18	Negotiable
331904	26-JUL-12	MARKET-THINK LLC	5,380.00	Negotiable
331905	26-JUL-12	MARVIN GARDENS LLC	1,252.56	Negotiable
331906	26-JUL-12	MC MASTER CARR SUPPLY CO	242.57	Negotiable
331907	26-JUL-12	MERCHANTS LANDSCAPE SERVICES INC	604.00	Negotiable
331908	26-JUL-12	Mitchell Robinson	645.00	Negotiable
331909	26-JUL-12	NATIONAL READY MIXED CONCRETE CO	5,605.10	Negotiable
331910	26-JUL-12	NEWPORT BEACH, CITY OF	1,069.77	Negotiable
331911	26-JUL-12	NMG GEOTECHNICAL INC	10,685.40	Negotiable
331912	26-JUL-12	OLIN CORPORATION	17,749.57	Negotiable
331913	26-JUL-12	ON ASSIGNMENT LAB SUPPORT	6,970.88	Negotiable
331914	26-JUL-12	ONESOURCE DISTRIBUTORS LLC	135.31	Negotiable

IRWD Ledger Payment Register For 01-JUL-12 To 31-JUL-12 Report Date: 02-AUG-2012 11:06
 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								
331915		26-JUL-12	ORANGE COUNTY PUMPING, INC.		450.00			Negotiable
331916		26-JUL-12	ORANGE COUNTY SANITATION DISTRICT		1,570.00			Voided
331917		26-JUL-12	ORANGE COUNTY TREASURER		132.00			Negotiable
331918		26-JUL-12	ORANGE COUNTY WATER DISTRICT		6,014.59			Negotiable
331919		26-JUL-12	PABIS, SHARON		6,160.00			Negotiable
331920		26-JUL-12	PACIFIC COAST BOLT CORP		1,904.11			Negotiable
331921		26-JUL-12	PAMCO MACHINE WORKS, INC.		11,016.76			Negotiable
331922		26-JUL-12	PAUL E BRADLEY INC		1,147.50			Negotiable
331923		26-JUL-12	PRAXAIR DISTRIBUTION INC		1,324.45			Negotiable
331924		26-JUL-12	PROTECTION ONE ALARM MONITORING INC		247.43			Negotiable
331925		26-JUL-12	PYRAMID WIRE AND CABLE		534.55			Negotiable
331926		26-JUL-12	RAM AIR ENGINEERING INC		9,261.50			Negotiable
331927		26-JUL-12	RMC WATER AND ENVIRONMENT		2,310.00			Negotiable
331928		26-JUL-12	SANTA ANA BLUE PRINT		1,699.50			Negotiable
331929		26-JUL-12	SANTIAGO AQUEDUCT COMMISSION		23,232.00			Negotiable
331930		26-JUL-12	SHAMROCK SUPPLY CO INC		676.08			Negotiable
331931		26-JUL-12	SIGMA-ALDRICH INC		283.53			Negotiable
331932		26-JUL-12	SIRIUS COMPUTER SOLUTIONS INC		88,456.45			Negotiable
331933		26-JUL-12	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		119.57			Negotiable
331934		26-JUL-12	SOUTH ORANGE COUNTY WASTEWATER AUTHORITY		92,300.00			Negotiable
331935		26-JUL-12	SOUTHERN CALIFORNIA EDISON COMPANY		107,954.81			Negotiable

IRWD Ledger Payment Register For 01-JUL-12 To 31-JUL-12 Report Date: 02-AUG-2012 11:06
 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								
331936		26-JUL-12	STANDARD & POOR'S FINANCIAL SERVICES LLC		1,000.00			Negotiable

331937	26-JUL-12	STANTEC CONSULTING SERVICES INC.	18,909.50	Negotiable
331938	26-JUL-12	STATE BOARD OF EQUALIZATION	4,768.75	Negotiable
331939	26-JUL-12	STERILIZER TECHNICAL	352.00	Negotiable
331940	26-JUL-12	SY NIELSON SERVICE INC	770.00	Negotiable
331941	26-JUL-12	TETRA TECH, INC	33,792.30	Negotiable
331942	26-JUL-12	THE GAS COMPANY	21.36	Negotiable
331943	26-JUL-12	TRIPAC MARKETING INC	1,189.83	Negotiable
331944	26-JUL-12	TROPICAL PLAZA NURSERY INC	3,426.40	Negotiable
331945	26-JUL-12	TRUGREEN LANDCARE LLC	41,000.00	Negotiable
331946	26-JUL-12	UNITED PARCEL SERVICE INC	64.14	Negotiable
331947	26-JUL-12	UNITED SITE SERVICES OF CALIFORNIA INC	483.52	Negotiable
331948	26-JUL-12	US PEROXIDE LLC	24,820.55	Negotiable
331949	26-JUL-12	USA BLUEBOOK	1,696.36	Negotiable
331950	26-JUL-12	VANCIU ELECTRIC INC	2,000.00	Negotiable
331951	26-JUL-12	VERIZON CALIFORNIA INC	497.84	Negotiable
331952	26-JUL-12	VPSI INC	9,978.00	Negotiable
331953	26-JUL-12	WAXIE'S ENTERPRISES, INC	278.34	Negotiable
331954	26-JUL-12	WESTERN EXTERMINATOR COMPANY	2,785.00	Negotiable
331955	26-JUL-12	WESTERN MUNICIPAL WATER DISTRICT	1,498.25	Negotiable
331956	26-JUL-12	XYLEM WATER SOLUTIONS USA INC	9,238.35	Negotiable
331957	26-JUL-12	YORK INSURANCE SERVICES GROUP INC - CA	7,228.50	Negotiable
331958	27-JUL-12	MARVIN GARDENS LLCHUNGTINGTO N BEA	1,341.14	Negotiable

IRWD Ledger Payment Register For 01-JUL-12 To 31-JUL-12 Report Date: 02-AUG-2012 11:06
 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								
331959		27-JUL-12	GARZA INDUSTRIES, INC	PURCHASE_P AY	1,292.58			Negotiable
331960		27-JUL-12	US BANK NAT'L ASSOCIATION NORTH DAKOTA	ST. LOUIS	68,773.23			Negotiable
331961		27-JUL-12	AFLAC		5,741.76			Negotiable
331962		27-JUL-12	AT&T		10,725.08			Negotiable
331963		27-JUL-12	BORCHARD SURVEYING & MAPPING, INC.		8,967.50			Negotiable
331964		27-JUL-12	BRENNTAG PACIFIC INC		16,731.22			Negotiable
331965		27-JUL-12	CDW GOVERNMENT LLC		6,020.74			Negotiable
331966		27-JUL-12	CLEARINGHOUSE		528.45			Negotiable
331967		27-JUL-12	COAST PLUMBING HEATING AND AIR, INC		119.90			Negotiable
331968		27-JUL-12	COLONIAL LIFE & ACCIDENT INSURANCE CO.		1,854.94			Negotiable
331969		27-JUL-12	CONEYBEARE INC		2,450.08			Negotiable
331970		27-JUL-12	CS-AMSCO		53,609.11			Negotiable
331971		27-JUL-12	D & H WATER SYSTEMS INC.		1,655.95			Negotiable
331972		27-JUL-12	DENNIS W. WEAVER		5,575.00			Negotiable
331973		27-JUL-12	FEDEX		54.60			Negotiable
331974		27-JUL-12	FERGUSON WATERWORKS		11,361.61			Negotiable
331975		27-JUL-12	FIRST CHOICE SERVICES		340.12			Negotiable
331976		27-JUL-12	FRANCHISE TAX BOARD		157.20			Negotiable
331977		27-JUL-12	GANAHL LUMBER CO.		215.50			Negotiable
331978		27-JUL-12	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY		175.03			Negotiable
331979		27-JUL-12	HEALTH SCIENCE ASSOCIATES, INC.		4,658.50			Negotiable
331980		27-JUL-12	INTERNAL REVENUE SERVICE		1,452.31			Negotiable
331981		27-JUL-12	MC MASTER CARR SUPPLY CO		138.22			Negotiable
331982		27-JUL-12	NEPTUNE TECHNOLOGY		115,012.35			Negotiable

331983 27-JUL-12 OLIN CORPORATION 22,926.17 Negotiable
 331984 27-JUL-12 ONESOURCE 7,209.77 Negotiable
 DISTRIBUTORS LLC
 IRWD Ledger Payment Register For 01-JUL-12 To 31-JUL-12 Report Date: 02-AUG-2012 11:06
 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								
331985		27-JUL-12	ORANGE COUNTY		16.50			Negotiable
			TREASURER					
331986		27-JUL-12	PEARPOINT		2,248.37			Negotiable
331987		27-JUL-12	PERS LONG TERM		1,235.35			Negotiable
			CARE					
331988		27-JUL-12	PONTON INDUSTRIES		1,521.04			Negotiable
			INC					
331989		27-JUL-12	POPESCU, LUMINITA		1,040.00			Negotiable
331990		27-JUL-12	PRE-PAID LEGAL		1,502.62			Negotiable
			SERVICES INC					
331991		27-JUL-12	SANTA ANA BLUE		82.99			Negotiable
			PRINT					
331992		27-JUL-12	SOUTHERN		25.86			Negotiable
			CALIFORNIA					
			SECURITY CENTER,					
			INC.					
331993		27-JUL-12	SPATIAL WAVE, INC.		4,500.00			Negotiable
331994		27-JUL-12	WECK LABORATORIES		488.50			Negotiable
			INC					
331995		27-JUL-12	WESTERN HYDRO		986.05			Negotiable
			CORPORATION					
Payment Document Subtotal:					11,596,295.98			

Payment Document : IRWD Wire

9508		09-JUL-12	CALPERS	SACRAMENTO	325,585.88			Negotiable
9509		05-JUL-12	YORK INSURANCE	PAY	5,220.81			Negotiable
			SERVICES GROUP INC					
			- CA					
9510		11-JUL-12	YORK INSURANCE	PAY	974.21			Negotiable
			SERVICES GROUP INC					
			- CA					
9511		18-JUL-12	YORK INSURANCE	PAY	5,558.28			Negotiable
			SERVICES GROUP INC					
			- CA					
9512		25-JUL-12	YORK INSURANCE	PAY	3,143.66			Negotiable
			SERVICES GROUP INC					
			- CA					
9513		30-JUL-12	U.S. BANK NATIONALPAY		7,725.41			Negotiable
			ASSOCIATION					
9514		30-JUL-12	BANK OF AMERICA	PAY	10,942.59			Negotiable
			MERRILL LYNCH					
9515		30-JUL-12	SUMITOMO MITSUI	NEW YORK	1,202,432.13			Negotiable
			BANKING CORPORAION					

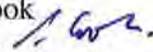
IRWD Ledger Payment Register For 01-JUL-12 To 31-JUL-12 Report Date: 02-AUG-2012 11:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 24
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD Wire								
9516		30-JUL-12	BANK OF NEW YORK	NEWARK	14,365.48			Negotiable
			MELLON TRUST					
			COMPANY NA					
9517		30-JUL-12	SUMITOMO MITSUI	NEW YORK	130,720.69			Negotiable
			BANKING CORPORAION					
9518		30-JUL-12	U.S. BANK NATIONALPAY		124,606.63			Negotiable
			ASSOCIATION					
9519		30-JUL-12	SUMITOMO MITSUI	NEW YORK	6,980.66			Negotiable
			BANKING CORPORAION					
9520		30-JUL-12	BANK OF NEW YORK	NEWARK	5,551.64			Negotiable
			MELLON TRUST					
			COMPANY NA					
9521		30-JUL-12	MUNICIPAL WATER	FOUNTAIN	1,797,181.93			Negotiable
			DISTRICT OF ORANGEVALLEY					
			COUNTY					
9522		30-JUL-12	BANK OF NEW YORK	NEWARK	25,972.22			Negotiable
			MELLON TRUST					
			COMPANY NA					
9523		30-JUL-12	BANK OF AMERICA	PAY	124,901.63			Negotiable
			MERRILL LYNCH					
9524		30-JUL-12	U.S. BANK NATIONALPAY		250.00			Negotiable
			ASSOCIATION					
9525		30-JUL-12	BANK OF NEW YORK	NEWARK	750.00			Negotiable
			MELLON TRUST					

August 27, 2012

Prepared and Submitted by: Various

Approved by: Paul Cook



CONSENT CALENDAR

DISTRICT STRATEGIC MEASURES DASHBOARD

SUMMARY:

Provided as Exhibits "A", "B", and "C" are the Strategic Measures Dashboard and informational items for Board review.

RECOMMENDATION:

THAT THE BOARD RECEIVE AND FILE THE STRATEGIC MEASURES DASHBOARD AND INFORMATION ITEMS.

EXHIBITS:

Exhibit "A" - Strategic Measures Dashboard

Exhibit "B" - Dyer Road Wellfield Status

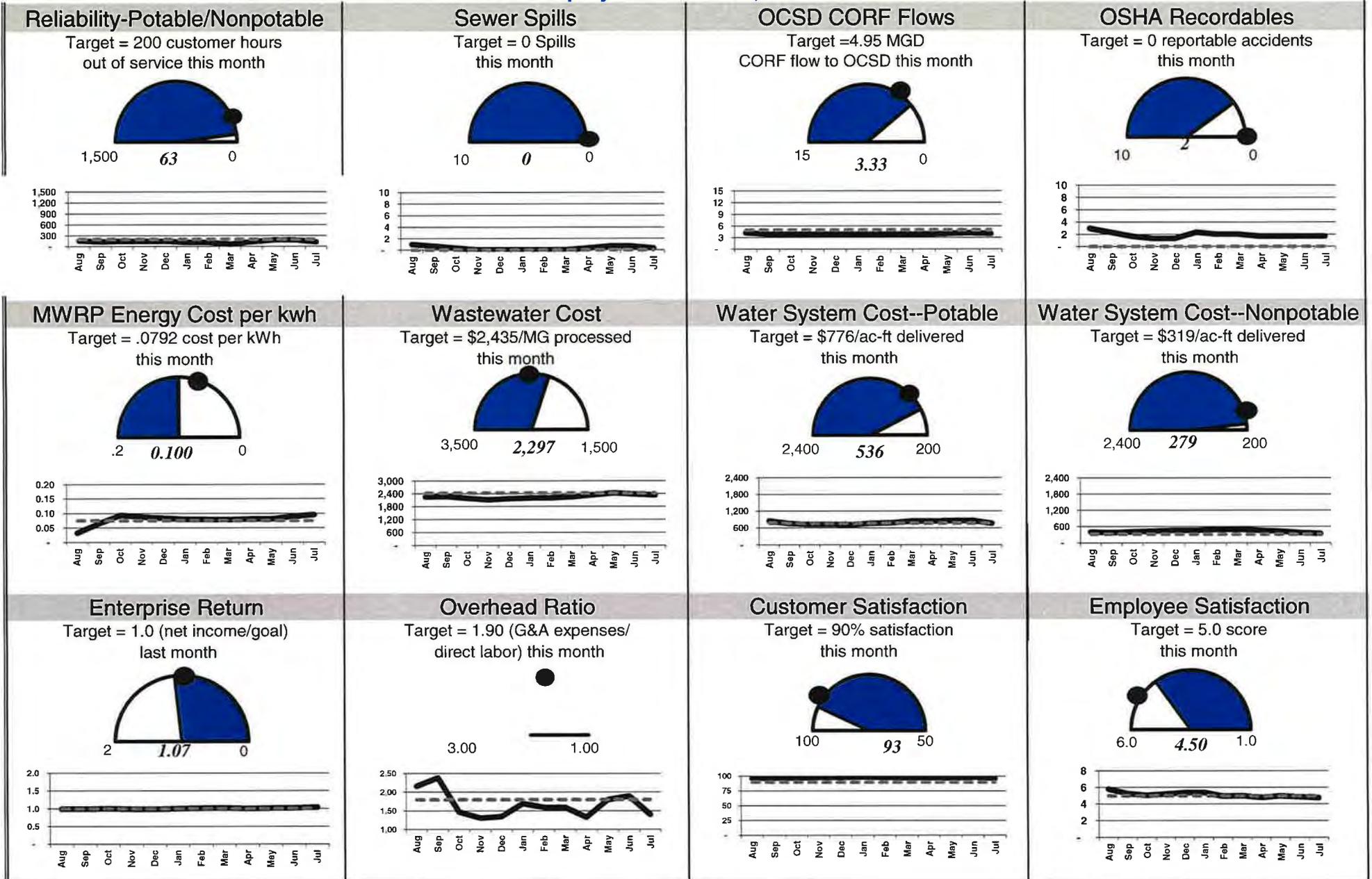
Exhibit "C" - Reservoir Data

**IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES DASHBOARD**

Exhibit "A"

July 2012

Note: The more blue area displayed on the dial, the more favorable the measure.



● Target shown on gauge
00.00 Figure for Current Month

----- Target shown on trend graph
———— 3-month rolling average

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

Reliability-Potable/Nonpotable

MONTHLY STATUS REPORT

Metric Owner: Water Ops

Definition of Measure:

The relative magnitude of system outages due to failures or scheduled maintenance for Potable and Non Potable Water.

Method:

Summation of the time any part of the system was out of service times the number of customers affected by the given outage during the month.

Data Collection

Data was derived from the CSR database for customer based reports of "no water" and from the work order database for scheduled maintenance requiring the shut down of water service during repairs.

Current Issues

1. None

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> August 2011
August 2011	148.10		<i>Thru:</i> July 2012
September 2011	176.90		<i>Goal:</i> 200.00
October 2011	130.00		
November 2011	114.50		
December 2011	197.10		
January 2012	35.42		
February 2012	98.10		
March 2012	65.10		
April 2012	231.20		
May 2012	252.60		
June 2012	66.30		
July 2012	62.80		

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

Sewer Spills

MONTHLY STATUS REPORT

Metric Owner: Gregory Springman Collection System Manager

Definition of Measure:

Number of sewer overflows of any quantity, regardless of cause, in IRWD's sanitary sewer collection system. This does not include spills from private sewers within IRWD's service area. IRWD has no control over private spills and is not responsible for them. However, it should be noted that IRWD will assist the County Health Care Agency in responding to and cleaning up private spills in the interest of the community.

Method:

Total number of IRWD sewer spills

Data Collection

Data is obtained from the California State Water Boards CIWQS data base for reporting SSO's.

Current Issues

1. August, 2011 - Irvine, 8" VCP. 165 gals SSO with 100% of wastewater contained and recovered. Caused by root intrusion.
2. April, 2012-Newport Coast Marriott, blockage occurred in a sewer easement due to root intrusion. 50 gals SSO with 50 gals of wastewater released into the environment. All wastewater spilled soaked into the grass covered easement.
3. May, 2012 - MWRP North interceptor trunk sewer main break caused by pile driving activities during MWRP expansion. The break occurred on the 48" VCP trunk sewer main. 9,425 gals SSO with 9,425 gals of wastewater contained and recovered.

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> August 2011
August 2011	1.00		<i>Thru:</i> July 2012
September 2011	0		<i>Goal:</i> 0
October 2011	0		
November 2011	0		
December 2011	0		
January 2012	0		
February 2012	0		
March 2012	0		
April 2012	1.00		
May 2012	1.00		
June 2012	0		
July 2012	0		

IRVINE RANCH WATER DISTRICT
 STRATEGIC MEASURES

OCSD CORF Flows

MONTHLY STATUS REPORT

Metric Owner: Wayne Posey

Director of Wastewater Operations

Definition of Measure:

Estimated CORF flow for current FY. CORF flow ownership as of the end of FY 2009/2010 was 8.62 MGD.

Method:

IRWD's CORF flow is derived by using the actual Main Street Flume Meter flow and subtracting the MWRP biosolid discharge flow and all non Revenue Area 14 (IRWD) flows tributary to the Main Street Flume meter/MWRP and adding in the San Joaquin Hills Planned Community flow and flow discharges from the Gas Recovery System (Formerly Laidlaw) for the FY four calendar months with the highest flow totals multiplied by three, averaging the result thereof with the same result of the same calculation for the preceding two fiscal years and adding in the current IBC transfer flow.

Note: All of the Newport Coast flows with the exception of the San Joaquin Hills Planned Community and Gas Recovery System flow are excluded from IRWD's CORF flow calculation. The OCSD's 1988 Downcoast Area Agreement only requires for IRWD to provide local wastewater collection service and requires OCSD to provide wastewater regional collection, transmission, treatment and disposal for that area.

Data Collection

The OCSD's Monthly Gallonage Flow Summary Report provides the actual flows used in calculating IRWD's CORF flow. This includes the Main Street Flume Meter actual monthly flow. All non Revenue Area 14 (IRWD) flows that are tributary to the Main Street Flume Meter is adjusted every year based on the results of OCSD's Flow Verification Study. The San Joaquin Hills Planned Community flow is adjusted every year based on the results of IRWD's Flow Verification Study. The Gas Recovery System flow is the actual monthly meter flow. The IBC transfer flow is adjusted every five years based on the results of OCSD's Flow Verification Study.

Current Issues

1. None

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> August 2011
August 2011	3.83		<i>Thru:</i> July 2012
September 2011	3.83		<i>Goal:</i> 4.95
October 2011	3.83		
November 2011	3.83		
December 2011	3.84		
January 2012	3.84		
February 2012	3.84		
March 2012	3.84		
April 2012	3.95		
May 2012	4.25		
June 2012	4.53		
July 2012	3.33		

IRVINE RANCH WATER DISTRICT
 STRATEGIC MEASURES

OSHA Recordables

MONTHLY STATUS REPORT

Metric Owner: Ken Erwin

District Safety & Security Manager

Definition of Measure:

OSHA Recordables are a monthly measure of injuries and illnesses that occurred and must be entered on the OSHA 300 (Log of Work Related Injuries and Illnesses), in conformance with OSHA requirements. This measure is standardized not only in the water/wastewater industry, but throughout industries nationwide.

Method:

OSHA Recordables = Number of OSHA Recordable cases occurring during the subject month.

Data Collection

All injuries/illnesses and near-misses are reported to the District Safety & Security Manager immediately when they occur. All are investigated and cases meeting the recordable definition are logged. This measure simply reports the number of accidents whose occurrence date is within the calendar month.

Current Issues

1. Maintnece Mechanic incurred puncture and laceration to left hand while using the hydrolic punch
2. Sr., CCTV Technition strained back while lifiting manhole cover.

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	From: August 2011
August 2011	4.00		Thru: July 2012
September 2011	1.00		Goal: 0
October 2011	0		
November 2011	3.00		
December 2011	1.00		
January 2012	3.00		
February 2012	2.00		
March 2012	1.00		
April 2012	2.00		
May 2012	2.00		
June 2012	1.00		
July 2012	2.00		

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

MWRP Energy Cost per kWh

MONTHLY STATUS REPORT

Metric Owner: Wayne Posey

Director of Wastewater Operations

Definition of Measure:

Actual MWRP Cost per kWh used at MWRP with new generating facility.

Method:

MWRP cost per kWh is calculated by the monthly total energy purchased from imported SCE electricity, purchased natural gas for the generators from Coral Energy, and SCG natural gas transportation charge divided by the total monthly kWh generated and imported from SCE. We then add in actual maintenance costs, including g/a.

Data Collection

Data collected from actual monthly SCE, Coral Energy and SCG Invoices. Total kWh is collected from the two generator kWh meters and SCE main electric meter.

Current Issues

1. None

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	From: August 2011
August 2011	.10		Thru: July 2012
September 2011	.10		Goal: .08
October 2011	.09		
November 2011	.08		
December 2011	.08		
January 2012	.08		
February 2012	.08		
March 2012	.08		
April 2012	.08		
May 2012	.08		
June 2012	.11		
July 2012	.10		

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

Wastewater Cost

MONTHLY STATUS REPORT

Metric Owner: Wayne Posey

Director of Wastewater Operations

Definition of Measure:

Total cost of collection and treatment (primary, secondary, and solids disposal) of wastewater, on a unit basis (\$/million gallons) for this month.

Method:

(MWRP cost of collections(G/L #530) + MWRP cost of treatment(G/L #551,552,565) + OCSD cost(G/L #535,555) + SMWD cost(G/L #531,556)) divided by the total sewage flows emanating from OCSD District #14 (Includes MWRP flow + OCSD flow + SMWD flow)

Data Collection

Data used for this measure are collected from the general ledger and from Orange County Sanitation District (OCSD) and Santa Margarita Water District (SMWD) staff. Costs and flows from OCSD District #7 are not included in the calculation.

Current Issues

1. Operational costs fell below target for the month of July due to the automatic reversal of year end accruals prior to receipt / payment of invoices for the identified accruals.

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> August 2011
August 2011	2,390.00	2,386.00	<i>Thru:</i> July 2012
September 2011	2,040.00	2,386.00	<i>Goal:</i> 2,435.00
October 2011	2,126.00	2,190.00	
November 2011	2,186.00	2,196.00	
December 2011	2,196.00	2,232.00	
January 2012	2,202.00	2,273.00	
February 2012	2,218.65	2,313.00	
March 2012	2,331.06	2,363.00	
April 2012	2,467.50	2,401.00	
May 2012	2,506.00	2,463.00	
June 2012	2,194.00	2,491.00	
July 2012	2,297.00	2,435.00	

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

Water System Cost--Potable

MONTHLY STATUS REPORT

Metric Owner: Denise To-Nguyen Accountant

Definition of Measure:

Total cost of potable water delivered to IRWD's customers this month, on a unit basis (\$/acre-foot). These monthly costs can vary greatly due to variation in water sales and power cost billing cycles. Thus, monthly expenses do not match up with their corresponding water sales.

Method:

Sum of all potable water costs accrued this month divided by the quantity of potable water sold this month.

Data Collection

Potable water costs collected from current month general ledger. This cost includes labor, power, distribution, and other costs. The quantity of water sold is collected from the Water Usage Variance Report, which summarizes metered water sales. Wide fluctuations in this measure may occur due to the billing delays for such expenses as electrical power (ie, bills are not paid in the same month as the water is sold).

Current Issues

1. The budget anticipated a larger percentage of imported water for the month of July.

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> August 2011
August 2011	773.00	789.00	<i>Thru:</i> July 2012
September 2011	731.00	768.00	<i>Goal:</i> 776.00
October 2011	699.00	866.00	
November 2011	795.17	858.00	
December 2011	657.43	828.00	
January 2012	859.01	836.00	
February 2012	843.39	834.00	
March 2012	858.00	832.00	
April 2012	846.00	828.00	
May 2012	887.00	826.00	
June 2012	893.00	824.00	
July 2012	536.00	776.00	

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

Water System Cost--Nonpotable

MONTHLY STATUS REPORT

Metric Owner: Denise To-Nguyen Accountant

Definition of Measure:

Total cost of nonpotable water delivered to IRWD's customer this month, on a unit basis (\$/acre-foot). These monthly costs can vary greatly due to variation in water sales and power cost billing cycles. Thus, monthly expenses do not match up with their corresponding water sales.

Method:

Sum of all nonpotable water costs accrued this month divided by the quantity of nonpotable water sold this month.

Data Collection

Nonpotable water costs collected from current month general ledger. This cost includes labor, power, distribution, and other costs related to tertiary treatment and reclaimed water distribution. The quantity of water sold is collected from the Water Usage Variance Report, which summarizes metered water sales. Wide fluctuations in this measure may occur due to the billing delays for such expenses as electrical power (ie, bills are not paid in the same month as the water is sold).

Current Issues

1. None

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> August 2011
August 2011	338.00	408.00	<i>Thru:</i> July 2012
September 2011	413.08	422.00	<i>Goal:</i> 319.00
October 2011	490.00	451.00	
November 2011	404.40	468.00	
December 2011	517.82	485.00	
January 2012	463.75	473.00	
February 2012	500.14	486.00	
March 2012	536.00	493.00	
April 2012	370.00	482.00	
May 2012	410.00	479.00	
June 2012	346.00	472.00	
July 2012	279.00	319.00	

IRVINE RANCH WATER DISTRICT
 STRATEGIC MEASURES

Enterprise Return

MONTHLY STATUS REPORT

Metric Owner: Finance

Debt and Investment Analyst

Definition of Measure:

This is a monthly measure of performance by IRWD's various enterprise activities, including residential and commercial real estate, Strawberry Farms Golf Course, and wireless communications leases.

Method:

Enterprise Return = Actual Net Income/Budgeted Net Income x 100

Data Collection

The various enterprise activities generate revenues and expenses at different frequencies through the year. Except for the real estate projects, the enterprise projects are primarily revenue generating activities with relatively little associated expenses. The measure reflects a comparison between the actual and budgeted net income of the various projects on a monthly basis.

Current Issues

1. The July measure is above budget due to higher than budgeted income at the Strawberry Farms Golf Course, Sycamore Canyon, Wood Canyon, and Waterworks property. Due to timing of the billing received additional income on wireless communications.

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> August 2011
August 2011	.98		<i>Thru:</i> July 2012
September 2011	1.00		<i>Goal:</i> 1.00
October 2011	1.03		
November 2011	.95		
December 2011	.99		
January 2012	1.07		
February 2012	1.00		
March 2012	1.00		
April 2012	1.02		
May 2012	1.03		
June 2012	1.03		
July 2012	1.07		

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

Overhead Ratio

MONTHLY STATUS REPORT

Metric Owner: Jessica Craig

Accountant

Definition of Measure:

Overhead Ratio is a measure of general and administrative (G&A) overhead expenses compared to direct labor expenses.

Method:

Ratio of total G&A expenses to total direct labor (including regular and overtime wages).

Data Collection

G&A expenses are summarized from the general ledger and include all costs incurred that are not directly accounted to mission-critical work (charged to g/l #792). Direct labor expenses are the hourly staff charges accounted to mission-critical work (generally charged to expense codes #110 and #120). Benefits are considered G&A, not direct labor expenses.

Current Issues

1. Information not available at time of reporting.

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> August 2011
August 2011	1.48		<i>Thru:</i> July 2012
September 2011	1.68		<i>Goal:</i> 1.80
October 2011	1.24		
November 2011	1.00		
December 2011	1.81		
January 2012	2.28		
February 2012	.70		
March 2012	1.80		
April 2012	1.50		
May 2012	2.10		
June 2012	2.10		
July 2012	Not available		

Customer Satisfaction

MONTHLY STATUS REPORT

Metric Owner: Gina Jackson

Customer Service Manager

Definition of Measure:

Customer Satisfaction is measured by IRWD's Customer Satisfaction Index. The index is measured by sending surveys to a statistically-significant, random selection of customers that have called IRWD for some type of service. Services range from answering questions about water conservation or billing to repairing a sewer blockage in the street. The surveys allow the customer to rate IRWD's response to their request in eight categories. Each category is rated from 1 to 5, with 1 indicating the highest level of satisfaction. A total score of 100 indicates the highest level of satisfaction in all eight categories. The scores of all responses in the subject month are a weighted average for the monthly index figure.

Method:

Data Collection

Surveys are mailed at the end of each work week for the customer requests completed that week. The monthly index reflects the surveys received within the subject month.

Current Issues

1. Total Overall Satisfaction: 93%
 Satisfaction: 85%
 Timely: 93%
 Phone: 94%
 Field Contact: 100%

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	From: August 2011
August 2011	96.00		Thru: July 2012
September 2011	99.00		Goal: 90.00
October 2011	95.00		
November 2011	100.00		
December 2011	98.00		
January 2012	98.00		
February 2012	98.00		
March 2012	95.00		
April 2012	99.00		
May 2012	96.00		
June 2012	100.00		
July 2012	93.00		

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

Employee Satisfaction

MONTHLY STATUS REPORT

Metric Owner: Gretchen Maswadeh

Human Resources Manager

Definition of Measure:

Level of employee satisfaction with employment at IRWD.

Method:

Average of all scores on surveys for performance evaluations presented this month

Data Collection

A survey is sent to each employee receiving a performance evaluation this month. The survey simply asks the employee to rate his/her overall employment satisfaction on a scale of 1 to 6 (1 being very dissatisfied and 6 being very satisfied). The ratings are compiled and averaged by Human Resources.

Current Issues

1. None

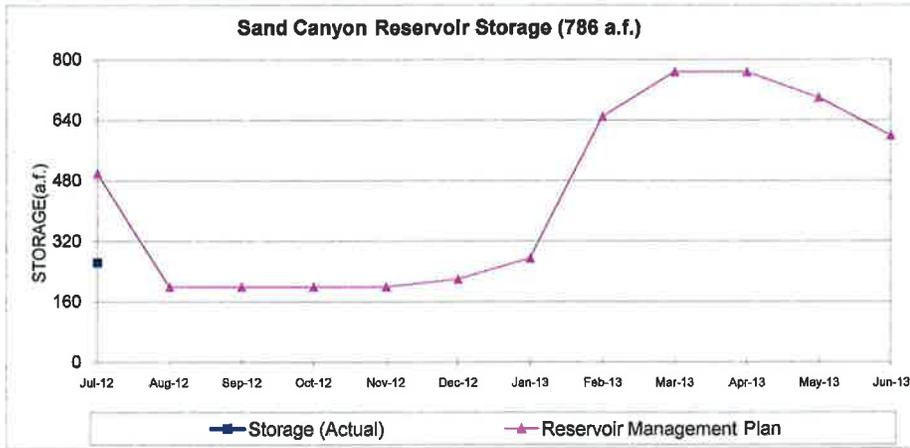
MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	From: August 2011
August 2011	5.38		Thru: July 2012
September 2011	4.38		Goal: 5.00
October 2011	5.36		
November 2011	5.91		
December 2011	4.86		
January 2012	5.40		
February 2012	4.60		
March 2012	5.00		
April 2012	4.77		
May 2012	5.13		
June 2012	4.67		
July 2012	4.50		

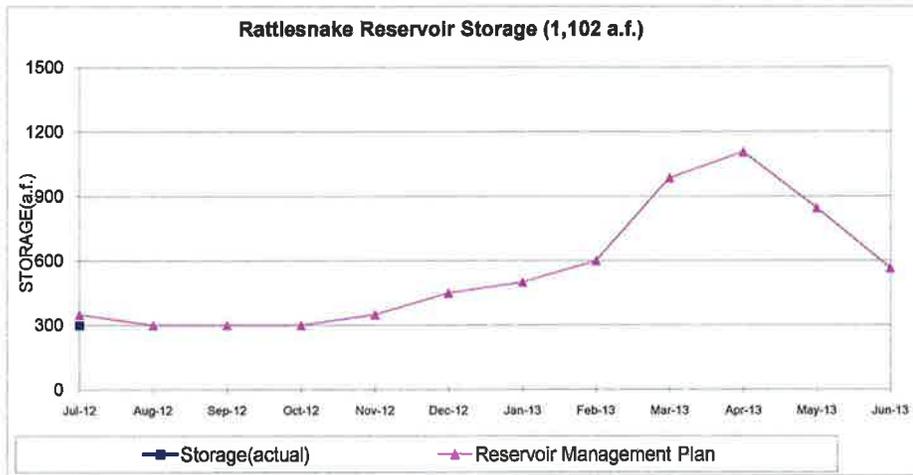
EXHIBIT "B"

DYER ROAD WELL FIELD STATUS							Jul-2012
Well Number	Production Mo./YTD	Ref. Point Elevation	Depth to Water 7/31/2012	Water Level-MSL	Depth of Bowls	Bowl Setting-MSL	Feet of Water Above Intake
1	203.4 AF 203.4 AF	34	N/A	N/A	270	-236	N/A
2	78.2 AF 78.2 AF	37	98	-62	270	-234	172
			Static				
3	0.0 AF 0.0 AF	55	96	-41	215	-160	119
			Static				
4	230.9 AF 230.9 AF	38	143	-105	216	-178	73
			Pumping				
5	203.3 AF 203.3 AF	48	273	-225	290	-242	17
			Pumping				
6	153.4 AF 153.4 AF	43	135	-92	250	-207	115
			Pumping				
7	261.1 AF 261.1 AF	40	238	-198	290	-250	52
			Pumping				
C-8 DATS	414.3 AF 414.3 AF	37	127	-90	305	-268	178
			Pumping				
C-9 DATS	318.2 AF 318.2 AF	23	127	-104	305	-282	178
			Pumping				
10	378.4 AF 378.4 AF	47	169	-122	250	-203	81
			Pumping				
11	0.1 AF 0.1 AF	40	115	-75	300	-260	185
			Static				
12	189.4 AF 189.4 AF	51	178	-127	300	-249	122
			Pumping				
13	61.8 AF 61.8 AF	40	195	-155	300	-260	105
			Pumping				
14	120.9 AF 120.9 AF	47	182	-135	311	-264	129
			Pumping				
15	142.7 AF 142.7 AF	44	176	-132	300	-256	124
			Pumping				
16	85.0 AF 85.0 AF	47	225	-178	280	-233	55
			Pumping				
17	294.5 AF 294.5 AF	52	199	-148	250	-199	51
			Pumping				
18	109.0 AF 109.0 AF	45	229	-184	300	-255	71
			Pumping				
Clear production: FYTD:	2,512.1 AF for the month 2,512.1 AF						
DATS production: FYTD:	732.5 AF for the month 732.5 AF						

RESERVOIR DATA FY 12-13

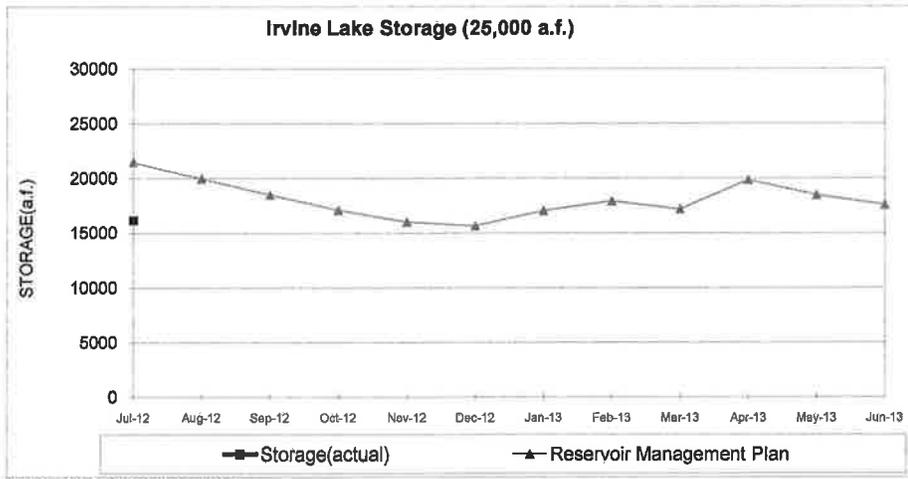


Sand Canyon Reservoir run-off was less than expected.

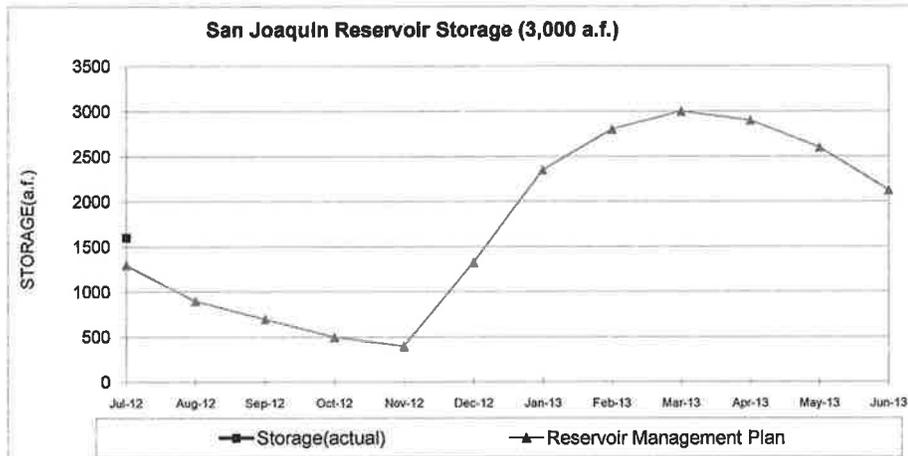


Rattlesnake storage is below average due to dry weather. The GAP was shutdown on 3/15/12.

RESERVOIR DATA FY 12-13



Irvine Lake storage is on track.



San Joaquin Reservoir storage is on track.

August 27, 2012
Prepared by: M. Cortez/M. Hoolihan/
S. Malloy/R. Mori
Submitted by: K. Burton
Approved by: Paul Cook

CONSENT CALENDAR

UPCOMING PROJECTS STATUS REPORT

SUMMARY:

A status report of Irvine Ranch Water District's Upcoming Projects is presented to the Committee 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 at the Engineering and Operations Committee on August 14, 2012.

RECOMMENDATION:

RECEIVE AND FILE.

LIST OF EXHIBITS:

Exhibit "A" – Upcoming Projects Status Report

EXHIBIT "A"

IRWD UPCOMING PROJECTS STATUS REPORT

Project Name	Planning	Start	Construction	Construction
	Start	Design	Award	Final Acceptance
OPA PRVs and Fire Flow Improvements				Summer 2012
Newport Blvd. (SAH) Waterline Relocation				Fall 2012
RMS at 5 DW Reservoirs	Spring 2013			
Santiago Canyon Area BPS Permanent Generators			Summer 2012	Winter 2013
Syphon Reservoir Interim Facilities			Fall 2012	Summer 2013
Main Street Diversion Structure Grating			Summer 2012	Winter 2013
SJM Outlet Pipe Valve Improvement			Fall 2012	Winter 2013
Vault Lid Rehabilitation - Phase 2			Fall 2012	Winter 2013
Portola Zone 9 Reservoir Access Road Repair		Fall 2012		
Jamboree Center Miscellaneous Improvements for Sewer Maintenance			Fall 2012	Winter 2013
Modjeska Canyon DW Pipeline Relocation			Summer 2012	Fall 2012
Portola Hills SLS Abandonment & Gravity Sewer			Fall 2012	
University Drive Pipelines Cathodic Protection				Summer 2012
Newport Coast Cathodic Protection Joint Bonding			Fall 2012	Spring 2013
Kelvin Avenue Cathodic Protection (Charter Apartments)			Fall 2012	Winter 2013
Santiago Dam and Outlet Tower Seismic Stability Study	On-going			
Lake Forest Sports Park DW and RW Facilities (RA w/Lake Forest)			Fall 2012	Summer 2013
Lake Forest Rancho Parkway Extension (RA w/ LF)				Winter 2013
PA 40 Capital Pipelines DW & RW, Phase 2 (RA w/ ICDC)				Fall 2012
PA 9B Jeffrey Road Zones 3, A, B and C Pipelines (RA w/ICDC)				Summer 2013
PA 9B Capital RW and ILP Relocation, Phase 3 (RA w/ICDC)			Fall 2012	Summer 2013
PA 9B Backbone Facilities, ILP Relocation, and 12" Sewer (RA w/ICDC)				Spring 2013
Tustin Ranch Road Pipelines (RA w/Tustin)				Fall 2013
Warner/Park/Carnegie Capital DW and S Improvements (RA w/Tustin)			Fall 2013	Summer 2013
Bee Canyon Pump Station (ICDC)				Spring 2013
Bake Pkwy, S.D. Creek to Future Lake Forest, 12" DW 24" RW (RA w/ICDC)				Fall 2012
Lake Forest Drive, Bake Pkwy to Romano, 12" DW 24" RW (RA w/ICDC)				Fall 2012
Irvine Boulevard Capital DW, S, RW Facilities (RA w/Heritage Fields)			Fall 2012	Summer 2013
Ridge Valley Capital RW Facilities (RA w/Heritage Fields)			Fall 2012	Summer 2013
Reach B Capital Sewer (RA w/Heritage Fields)			Fall 2012	Fall 2013
Capital RW Facilities between OCTA and LV Street (RA w/Heritage Fields)			Fall 2012	Fall 2013
Trabuco Road Capital DW, S, RW Facilities (RA w/Heritage Fields)			Fall 2012	Fall 2013
Reach A Capital Sewer (RA w/Heritage Fields)			Fall 2012	Fall 2013
Baker Ranch Capital Sewer Improvements (RA w/Shea/Toll Brothers)			Fall 2012	Summer 2013
MWRP Biosolids and Energy Recovery Facilities			Fall 2012	Summer 2016
MWRP Phase 2 Expansion				Winter 2013
Lake Forest (LAWD) PLC Replacement and Control System Upgrades			Summer 2013	Winter 2014
Water Operations Transdyn Replacement				Winter 2013

August 27, 2012
Prepared and
Submitted by: Rob Jacobson
Approved by: Paul Cook 

CONSENT CALENDAR

SAND CANYON OFFICE DEVELOPMENT PROJECT
- TENANT IMPROVEMENTS FINAL ACCEPTANCE

SUMMARY:

Staff recommends approval of the final acceptance of the tenant improvement portion of the Sand Canyon Office Development project.

BACKGROUND:

In January 2012, KPRS was retained by the District for construction of tenant improvements for the building's primary tenant, Coastal Fertility Medical Center (Coastal). The project was substantially completed in April 2012.

Also, the following construction project received a final inspection by the City of Irvine and a Certificate of Use and Occupancy was issued on August 16, 2012. Based on this approval, Project #1284 – Sand Canyon Office Development Tenant Improvements is recommended for acceptance:

Project Title:	Sand Canyon Office Development – Coastal Fertility Tenant Improvements
Project No.:	#1284 (Prior #11118)
Construction Manager:	Newport Real Estate Services
Contractor:	KPRS Construction, Inc.
Original Contract Cost:	\$1,306,664.00
Final Contract Cost:	\$1,404,680.00
Retention Release Amount:	\$ 70,234.00
Previous Retention Release:	\$ 0.00
Contract Completion:	100%
Total Project Budget:	\$7,939,700.00

Final Project Cost (Est.): \$7,880,570.00

FISCAL IMPACTS:

The current approved capital budget amount for Project No. 1284, Asset Optimization – Sand Canyon Property Development is \$7,939,700. This amount includes a Board-approved budget increase of \$1,455,100 for tenant improvements for the primary tenant.

Stabilized net operating income in Year-3 for the medical office building assuming full occupancy is projected to be 7.08% based on an initial lease rate of \$3.15 per square foot and including tenant improvement costs.

ENVIRONMENTAL COMPLIANCE:

A Final Environmental Impact Report has been prepared, certified and the project approved by the County of Orange Environmental Management Agency 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 has not been reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD ACCEPT CONSTRUCTION OF THE SAND CANYON OFFICE DEVELOPMENT TENANT IMPROVEMENT PROJECT AND AUTHORIZE THE GENERAL MANAGER TO FILE A NOTICE OF COMPLETION; AND AUTHORIZE PAYMENT OF THE RETENTION 35 DAYS AFTER THE DATE OF RECORDING THE NOTICE OF COMPLETION.

LIST OF EXHIBITS:

None.

August 27, 2012
Prepared by: J. Smyth/M. Cortez
Submitted by: K. Burton
Approved by: Paul Cook

CONSENT CALENDAR

OPERATIONS CENTER FACILITIES EXPANSION PROJECT PHASE I
MEZZANINE CONVERSION FINAL ACCEPTANCE

SUMMARY:

Snyder Langston completed the construction of the mezzanine conversion and seismic upgrades to the Purchasing Warehouse. The project has received a final inspection and acceptance of construction is recommended.

BACKGROUND:

Project Title:	Operations Center Facilities Expansion Phase I Mezzanine Conversion
Project No.:	11422, 21422, 31422
Design Engineer:	RRM Design Group
Construction Management by:	IRWD Staff and Malcolm Pirnie
Contractor:	Snyder Langston
Original Contract Cost:	\$763,376
Final Contract Cost:	\$828,125
Original Contract Days:	365
Substantial Completion Days:	324
Final Contract Days:	365
Total Budget:	\$1,489,200
Total Project Cost (Est.):	\$1,241,000
Final Change Order Approved On:	August 13, 2012

FISCAL IMPACTS:

Projects 11422 (1388), 21422 (1120), and 31422 (1156) were included in the FY 2011-12 Capital Budget. The existing budgets and Expenditure Authorizations were sufficient to complete 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 February 15, 2011.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDED MOTION:

THAT THE BOARD ACCEPT CONSTRUCTION OF THE OPERATIONS CENTER FACILITIES EXPANSION PROJECT PHASE I MEZZANINE CONVERSION, PROJECTS 11422 (1388), 21422 (1120), AND 31422 (1156); 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.

August 27, 2012

Prepared by: C. Kessler/R. Bennett

Submitted by: P. Weghorst/G. Heiertz

Approved by: Paul Cook 

CONSENT CALENDAR

ADDENDUM NO.1 TO THE CITY OF LAKE FOREST SPORTS PARK AND RECREATION CENTER FINAL ENVIRONMENTAL IMPACT REPORT

SUMMARY:

Irvine Ranch Water District proposes minor modifications to the City of Lake Forest Sports Park and Recreation Center (Sports Park) Final Environmental Impact Report (FEIR). The modifications are required due to the relocation of an existing IRWD 16-inch recycled water line outside of the Sports Park project area. Environmental review has been completed for the proposed modifications and staff recommends that the Board approve Addendum No.1 to the City of Lake Forest Sports Park and Recreation Center FEIR.

BACKGROUND:

In March 2011 the City of Lake Forest, as the lead agency for the preparation of the FEIR for the proposed Sports Park, certified this FEIR. The FEIR analyzed the environmental consequences associated with the construction and operation of the Sports Park, including the relocation of an existing IRWD 16-inch recycled water line located within the Sports Park site. The existing pipeline, constructed within a non-exclusive easement, currently crosses the Sports Park site from east to west, extending from IRWD's Zone II East Reservoir property located west of the Sports Park site to the southern portion of the commercial development located east of the Sports Park site near the corner of Portola Parkway and El Toro Road. IRWD was a responsible agency to the City's FEIR.

When the FEIR was originally certified, the segment of the IRWD recycled water pipeline that was outside the Sports Park project area was not impacted by the project. Since then, the City has requested that this pipeline be realigned so it enters the Sports Park site at a different location. Relocating this segment of the recycled water pipeline required an addendum to the FEIR.

FEIR Addendum No. 1:

Addendum No.1 to the FEIR addresses the proposed realignment of IRWD's recycled water pipeline, extending from the Zone II East Reservoir IRWD property northeast through a parcel of land owned by the Baker Ranch Area 1 Owners Association and then back to the boundary of the Sports Park site. Addendum No.1 addresses the relocation of approximately 500 feet of the recycled water line that would be located outside the Sports Park project area. The recycled pipeline relocation would be located within the non-reserve lands of the Orange County Natural Community Conservation Plan and Habitat Conservation Plan (NCCP/HCP) Central/Coastal Sub-region. A copy of Addendum No. 1 is attached as Exhibit "A".

A biological assessment of the project area confirmed the presence and quantity of mature coastal sage scrub (CSS) on both the IRWD property and the Baker Ranch Area 1 Owners

Association property. Because the proposed project impacts are within an area that was not owned or controlled by IRWD at the time that the NCCP/HCP was signed, the area qualifies for the in-lieu fee to offset impacts. Because the impacts are temporary, IRWD is proposing to restore the disturbed CSS area with CSS rather than using the in-lieu fee program. All disturbed areas will be restored at a 1:1 ratio after project completion. Weeding will be conducted in the seeded areas, as necessary, during the first two years after seeding. The restored CSS will have 75% cover of native species within three years after planting/seeding.

FISCAL IMPACTS:

The Recycled Water Pipeline Project 30352 (1732) was included in the FY 2011-12 Capital Budget. The existing budgets and Expenditure Authorizations are sufficient at this time.

ENVIRONMENTAL COMPLIANCE:

Section 15164 of the State of California Environmental Quality Act (CEQA) Guidelines provides for the preparation of an addendum to a previously certified EIR by lead agency or a responsible agency if some changes or additions to the project are necessary but none of the conditions described in CEQA calling for preparation of a subsequent EIR have occurred. Based on the information and analysis in the proposed Addendum No. 1, the Determination section of the Addendum sets forth the proposed determinations by the District that none of such conditions have occurred. The proposed modifications would not change the regulatory framework, impact discussion, mitigation measures, or conclusions as described in the FEIR.

COMMITTEE STATUS:

Addendums to environmental impact reports are not typically taken to Committee prior to submittal for Board approval.

RECOMMENDATION:

THAT THE BOARD APPROVE THE PROPOSED ADDENDUM NO.1 TO THE CITY OF LAKE FOREST SPORTS PARK AND RECREATION CENTER FINAL ENVIRONMENTAL IMPACT REPORT, INCLUDING THE DETERMINATION SET FORTH IN ADDENDUM NO. 1.

LIST OF EXHIBITS:

Exhibit "A" – Addendum No. 1 to the City of Lake Forest Sports Park and Recreation Center Final Environmental Impact Report

EXHIBIT "A"

**Addendum No.1 to the
City of Lake Forest Sports Park and Recreation Center
Final Environmental Impact Report
(State Clearinghouse No. 2009061020)**

Prepared for:

Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, California 92618

Prepared by:

DUDEK
31878 Camino Capistrano, Suite 200
San Juan Capistrano, California 92675

AUGUST 2012

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APPENDICES

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- B Nature Reserve of Orange County Letter

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Acronyms and Abbreviation

Acronym/Abbreviation	Definition
AB	Assembly Bill
BACT	Best Available Control Technology
BMP	best management practices
BRA10A	Baker Ranch Area 1 Owners' Association
CARB	California Air Resources Board
CEQA	California Environmental Quality Act
City	City of Lake Forest
CSS	Coastal Sage Scrub
EIR	Environmental Impact Report
FEIR	Final Environmental Impact Report
HCP	Habitat Conservation Plan
HP	horsepower
IRWD	Irvine Ranch Water District
NCCP	Natural Community Conservation Plan
SCAQMD	South Coast Air Quality Management District
SB	Senate Bill

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1.0 INTRODUCTION AND PROJECT DESCRIPTION

The Irvine Ranch Water District (IRWD) proposes minor modifications to the City of Lake Forest (City) Sports Park and Recreation Center Final Environmental Impact Report (FEIR). The modifications include relocation of an existing 16-inch recycled water line. No substantial changes have occurred that warrant preparation of subsequent or supplemental EIRs pursuant to Section 15162 of the California Environmental Quality Act (CEQA) Guidelines.

1.1 Project Background

The City certified the Final Environmental Impact Report (FEIR) for the Sports Park and Recreation Center in March 2011 (State Clearinghouse No. 2009061020). This FEIR analyzed the environmental consequences associated with implementation and construction of the Sports Park and Recreation Center, which included relocating an existing 16-inch recycled water line as described in the FEIR. This existing pipeline is owned and operated by IRWD and currently crosses the Sports Park site from west to east, extending from IRWD-owned property located west of the Sports Park site to the southern portion of the commercial development located east of the Sports Park site near the corner of Portola Parkway and El Toro Road. As assessed in the FEIR, the pipeline would be relocated on the Sports Park site and would be temporarily taken out of service for short periods to connect to temporary and permanent improvements during the construction period.

This addendum, prepared in accordance with CEQA (California Public Resources Code, Section 21000 et seq.) and its implementing CEQA Guidelines (California Code of Regulations Title 14, Chapter 3, Section 15000 et seq.), addresses the proposed recycled water line realignment, which would extend from IRWD-owned property through a parcel of land owned by the Baker Ranch Area 1 Owners' Association (BRA1OA) and then back on the Sports Park site. The focus of this addendum is the relocation of approximately 498 feet of the recycled water line that would be off site rather than entirely within the Sports Park property. The reclaimed water line serves the Sports Park and its proposed change in location is necessitated by a change in the Sports Park design. The pipeline is within the non-reserve lands of the Orange County Natural Community Conservation Plan/Habitat Conservation Plan (NCCP/HCP) Central/Coastal Subregion.

1.2 Project Setting

The recycled water pipeline relocation will occur adjacent to the Sports Park project site, which is located near the intersection of Portola Parkway and El Toro Road in the City of Lake Forest, Orange County, California. The recycled water pipeline relocation and Sports Park projects are both located within the non-reserve lands of the NCCP/HCP. The proposed waterline realignment would run from IRWD's property northeast through the BRA1OA property and then

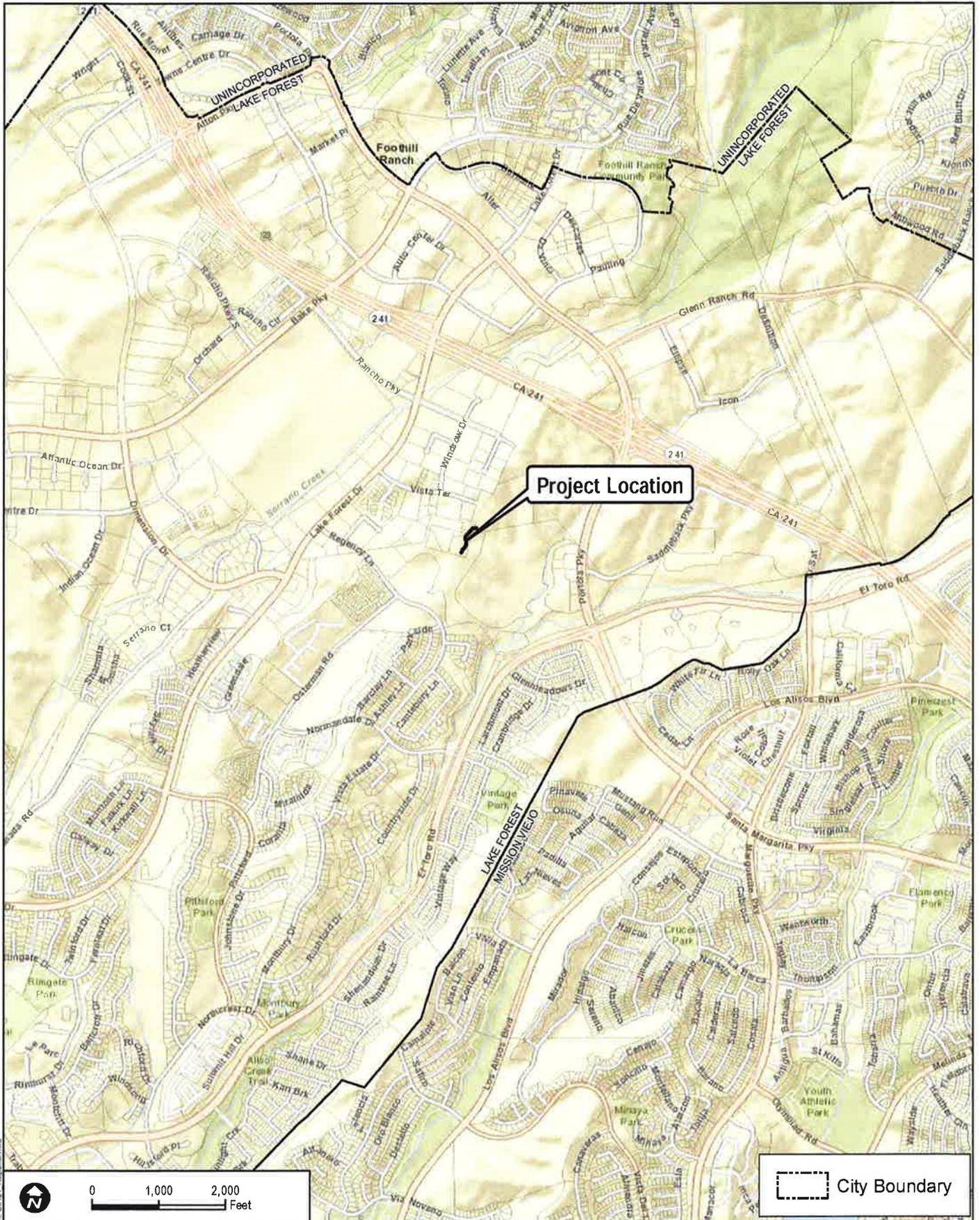
on to the City of Lake Forest Sports Park property. Figure 1 shows the regional location and Figure 2 shows the local vicinity of the project area with the original location of the water line (blue line) that was assessed in the Sports Park and Recreation Center FEIR and the proposed realignment (green line). The recycled water pipeline relocation project boundary is on both IRWD property and the BRA10A property and consists of mature coastal sage scrub (CSS). The site provides suitable habitat for the California gnatcatcher (*Polioptila californica*) and the San Diego cactus wren (*Campylorhynchus brunneicapillus couesi*), both of which were observed on site during the biology survey performed by Harmsworth Associates in March 2012 (see Appendix A). The project site itself contains no riparian vegetation. Access to the site is currently provided via an access road off Regency Lane. The portion of the project site owned by IRWD is designated Public Facility and the BRA10A site is designated Regional Park/Open Space by the City's General Plan (City of Lake Forest 2010).

1.3 Proposed Modifications to the Project

This addendum addresses several modifications to the project, including the change to the recycled water line alignment and a temporary staging area. Staging will likely only occur on paved areas of the IRWD facility depending upon construction conditions. If a temporary staging area is required on the BRA10A site, they would be restored along with the pipeline alignment to their original condition. The pipeline alignment area of impact would be 20 feet wide; refer to Figure 3, Proposed Construction Plan, for details. All construction areas would be temporarily impacted and fully restored with native vegetation after construction is completed (see Appendix B).

1.4 Project Phasing and Schedule

The modifications to pipeline location as described in this addendum would be completed concurrently with the construction of the Sports Park, which is currently underway. The existing pipeline location would be abandoned and all clearing and grubbing associated with construction of the new line would be completed outside the nesting bird season. Construction of the pipeline is anticipated to begin in fall 2012 and be completed prior to February 2013. The construction of the pipeline relocation would take approximately 2 months to complete.



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DUDEK

7036-02

FIGURE 1
Regional Map

Addendum No. 1 to the City of Lake Forest Sports Park EIR

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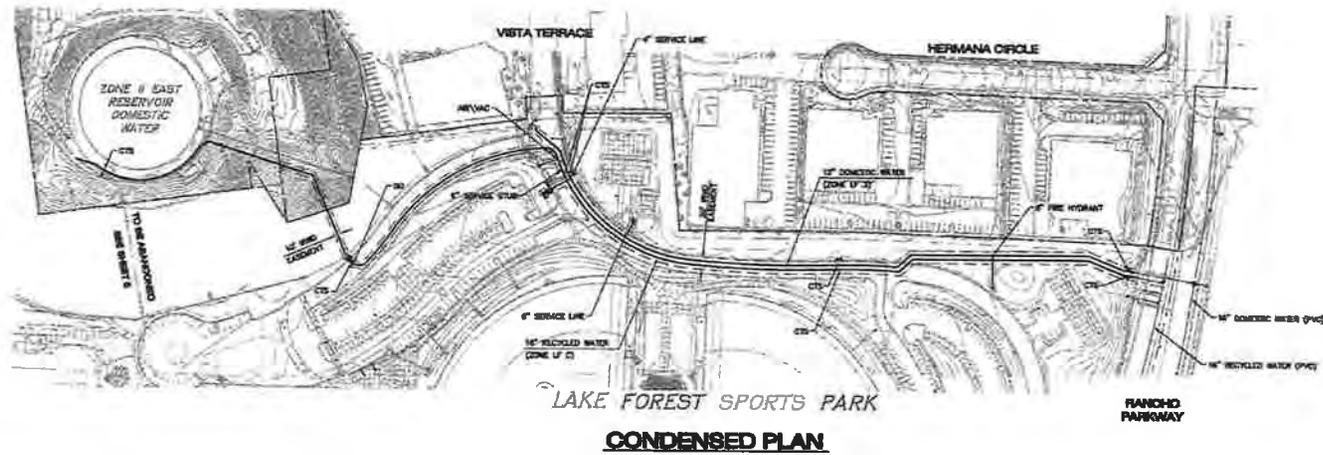
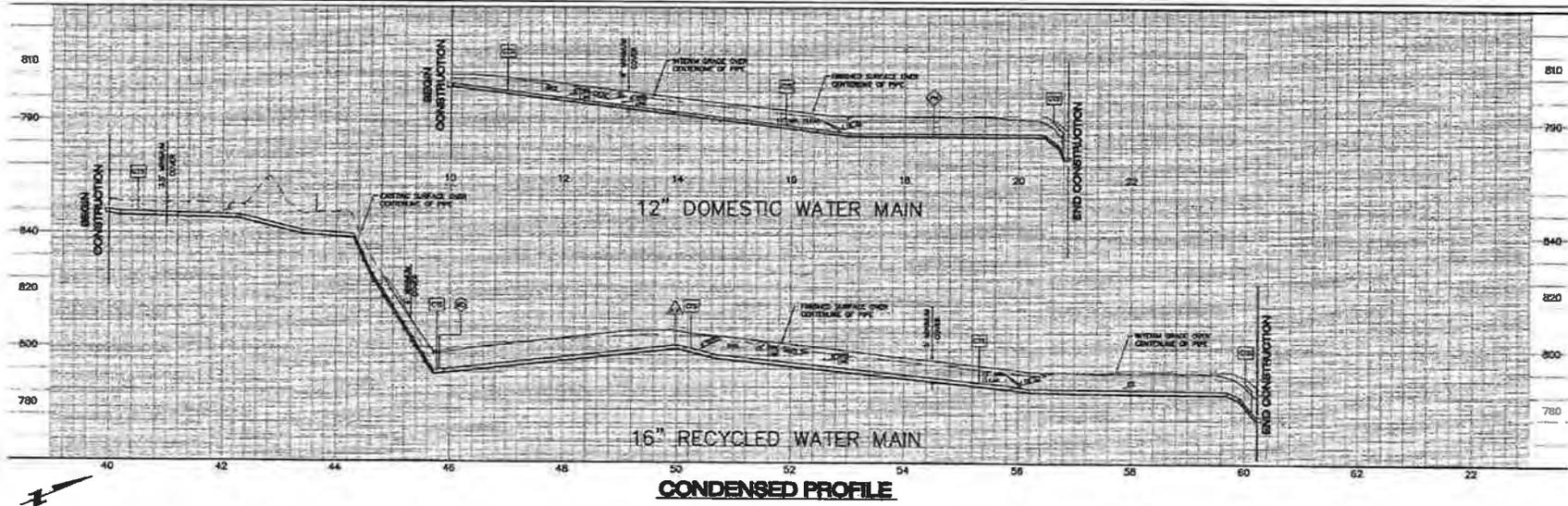
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SOURCE: Bing, Orange County 2012

FIGURE 2
Local Vicinity

Addendum No. 1 to the City of Lake Forest Sports Park EIR

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SOURCE Innote Ranch Water District 2012

7036-02

Addendum No. 1 to the City of Lake Forest Sports Park EIR

FIGURE 3
Proposed Construction Plan

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2.0 ENVIRONMENTAL IMPACT ANALYSIS

The proposed pipeline realignment does not change the conclusions of the impact analysis of the referenced FEIR. The modification of the pipeline location described in Section 1.0 would have no new significant adverse environmental impacts.

To ensure that no significant environmental impacts would occur, the proposed pipeline realignment project would adhere to applicable mitigation measures included in the previously certified FEIR for the Sports Park project, as described in the following sections. Only the mitigation measures stated in the certified FEIR that apply to the project are restated in the applicable sections below. Some mitigation measures have been slightly revised in order to make the mitigation measures specific to the pipeline realignment. Underline indicates added text and Strikeout indicates deleted text in the mitigation measures.

2.1 Aesthetics

The project site is surrounded by previous mining operations to the north, industrial development to the west, open space and commercial development to the east, and open space followed by residential development to the south. Sensitive views near the existing 16-inch recycled water line are predominantly from recreational trails located southwest from the pipeline and bike trails located southerly from the pipeline. Some portion of the trails are visually linked to undeveloped slopes and riparian corridors in the surrounding area, and to the more distant foothills, Whiting Ranch Wilderness Park, and the Cleveland National Forest. The relocation of approximately 498 feet of the pipeline would extend from an IRWD owned parcel of land, through a parcel of land owned by BRAIOA and then onto the Sports Park project site. The realignment would not result in any permanent visual impacts and would remain consistent with the aesthetics of the alignment analyzed within the FEIR. .

As assessed in the Sports Park and Recreation Center FEIR, relocation of the existing pipeline would be visible during construction activities. In addition, a temporary equipment staging area will likely only occur on paved areas of the IRWD facility depending upon construction conditions. If a temporary staging area is required on the BRAIOA site, it would be restored along with the pipeline alignment to its original condition after construction is completed. No nighttime lighting impacts are anticipated during construction activities. Relocation of the existing pipeline would require construction equipment for approximately 2 months.

Relocation of the existing pipeline would not substantially degrade the existing visual character or quality of the site and its surroundings since the existing pipeline alignment would be restored to its original condition after construction is completed. The proposed relocation of the pipeline is near the top of the ridgeline where the existing water tank is located. Facilities would not extend into public neighborhoods.

Since the project would restore the pipeline alignment and temporary staging area to their original condition, any potential aesthetic impacts associated with relocation of the existing pipeline would be less than significant and no mitigation measures would be required.

2.2 Agricultural Resources

The area is zoned as Other Land, as shown on the Orange County Important Farmland Map (California Department of Conservation 2011), and is not in an area identified as Prime Farmland or Farmland of Statewide Importance. There are no agricultural activities practiced on the Sports Park project site, the BRA10A site, or the IRWD property, nor is there a Williamson Act contract in force on any of these properties. The City's Land Use Policy Map has designated the project site as Regional Park/Open Space (City of Lake Forest 2010). There is no change in impacts related to agricultural resources associated with relocation of the existing pipeline and temporary staging area. Therefore, no impacts related to agricultural resources would occur and no mitigation measures would be required.

2.3 Air Quality

The proposed relocation of the existing 16-inch recycled water line would involve limited use of construction equipment for approximately 2 months. Construction activities would result in minor construction emissions from heavy equipment exhaust, construction-related trips by workers, material hauling trucks and associated fugitive dust generation from clearing and grading activities. The principal pollutants would be carbon monoxide (CO), volatile organic compounds (VOC), oxides of nitrogen (NO_x) and PM₁₀. VOC and NO_x are precursors of ozone (O₃). Due to the limited construction activities associated with the proposed project, construction emissions are expected to be below the South Coast Air Quality Management District (SCAQMD) significance thresholds and are therefore less than significant. Once constructed, the proposed project would not result in any impacts related to air quality, such as those from maintenance activities, which were not previously analyzed in the FEIR. Therefore, any potential air quality impacts associated with relocation of the existing pipeline would be less than significant and no mitigation measures would be required.

2.4 Biological Resources

Harmsworth Associates conducted a biological assessment at the Lake Forest Zone C Recycled Water Relocation Project in March 2012, specifically within the IRWD property and BRA10A site and documented the habitat and species observed during the assessment.

The proposed relocation of the existing 16-inch recycled water line would occur within CSS habitat areas. Only temporary vegetation removal would occur during relocation of the existing pipeline and vegetation areas impacted would be fully restored to pre-construction conditions (ornamental landscaping and CSS habitat) (refer to Mitigation Measure AES-1 mentioned in Section 2.1). No impacts to jurisdictional waters would result from the relocation of the pipeline.

The recycled pipeline relocation would be located within the non-reserve lands of the NCCP/HCP. The proposed pipeline realignment would run from IRWD's property northeast through the BRA10A property and then on to the City's Sports Park property. As previously mentioned, relocation of the existing pipeline would only result in temporary impacts and no permanent impacts due to the full CSS restoration; therefore, no net loss of habitat would occur.

Sensitive wildlife that would be affected by noise and other construction-related disturbances include Cooper's hawk (*Accipiter cooperii*), yellow-breasted chat (*Icteria virens*), southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*), coastal California gnatcatcher (*Polioptila californica californica*), and coastal cactus wren (*Campylorhynchus brunneicapillus*). Construction activities are anticipated to start in fall 2012 and be completed prior to February 2013, thus avoiding the nesting gnatcatcher breeding season. Should construction activities occur during bird nesting season, implementation of Mitigation Measure BIO-4 described below would occur.

In order to address the potential for impacts to sensitive wildlife, Mitigation Measures BIO-1, BIO-2, and BIO-4 are incorporated into the project to ensure biological resource impacts would be less than significant (ICF 2010, pp. 3.3-6–3.3-8, 3.3-14). It should be noted that BIO-1 and the portion of BIO-2 requiring confirmation of the presence and quantity of CSS have been satisfied through biological studies referenced in the Sports Park and Recreation Center FEIR (ICF 2010) and by the Biological Assessment prepared by Harmsworth Associates (2012). The language in BIO-2 regarding payment of in-lieu fees to the NCCP Reserve does not apply to the pipeline relocation, because no permanent impacts would occur as a result of the pipeline relocation. The bulleted language within BIO-2 pertaining to avoidance and minimizations would apply to the pipeline relocation.

Mitigation Measures

BIO-2 **Loss of Coastal Sage Scrub Habitat and Plant and Animal Species Protected by the NCCP/HCP (OSA PEIR MM 3.42).** Prior to ~~recording of a subdivision map or~~ issuance of a grading permit, whichever comes first, the applicant shall retain a qualified, permitted biologist to confirm the presence and quantity of coastal sage scrub habitat located on the project site. If coastal sage scrub habitat is found to be located on the project site, the applicant shall submit proof to the director of development services that in-lieu fees have been paid to the County of Orange Central/Coastal Natural Communities Conservation Plan (NCCP) Reserve. Currently, these fees are assessed at \$65,000 per acre of coastal sage scrub habitat lost.

The applicant shall also demonstrate to the satisfaction of the director of development services compliance with the following NCCP construction impact avoidance measures or such measure in effect at the time of construction:

- To the maximum extent practicable, no grading of CSS habitat that is occupied by nesting gnatcatchers will occur during the breeding season (February 15 through July 15). It is expressly understood that this provision and the remaining provisions of these “construction-related minimization measures” are subject to public health and safety considerations. These considerations include unexpected slope stabilization, erosion control measures, and emergency facility repairs. In the event of such public health and safety circumstances, landowners or public agencies/utilities will provide USFWS/CDFG with the maximum practicable notice (or such notice as is specified in the NCCP/HCP) to allow for capture of gnatcatchers, cactus wrens, and any other CSS identified species that are not otherwise flushed and will carry out the following measures only to the extent as practicable in the context of the public health and safety considerations.
- Prior to the commencement of grading operations or other activities involving significant soil disturbance, all areas of CSS habitat to be avoided under the provisions of the NCCP/HCP shall be identified with temporary fencing or other markers clearly visible to construction personnel. Additionally, prior to the commencement of grading operations or other activities involving disturbance of CSS, a survey will be conducted to locate gnatcatchers and cactus wrens within 100 feet of the outer extent of projected soil disturbance activities, and the locations of

any such species shall be clearly marked and identified on the construction/grading plans.

- A monitoring biologist, acceptable to USFWS/CDFG will be on site during any clearing of CSS. The landowner or relevant public agency/utility will advise USFWS/CDFG at least seven (7) calendar days (and preferably fourteen (14) calendar days) prior to the clearing of any habitat occupied by identified species to allow USFWS/CDFG to work with the monitoring biologist in connection with bird flushing/capture activities. The monitoring biologist will flush identified species (avian or other mobile identified species) from occupied habitat areas immediately prior to brush-clearing and earthmoving activities. If birds cannot be flushed, they will be captured in mist nets, if feasible, and relocated to areas of the site to be protected or to the NCCP/HCP Reserve System. It will be the responsibility of the monitoring biologist to assure that Identified bird species will not be directly affected by brush-clearing and earthmoving equipment in a manner that also allows for construction activities on a timely basis.
- Following the completion of initial grading/earth movement activities, all areas of CSS habitat to be avoided by construction equipment and personnel will be marked with temporary fencing or other appropriate markers clearly visible to construction personnel. No construction access, parking, or storage of equipment or materials will be permitted within such marked areas.

BIO-4 **If construction activities must occur during the nesting season (February 15 to September 1).** All suitable habitat would be thoroughly surveyed for the presence of nesting birds by a qualified biologist before commencement of disturbance activities. If an active nest is detected, the vegetation containing the nest, along with a 200- to 300-foot buffer around it, would be flagged and avoided until the nest is no longer active, as determined by a qualified biologist.

Impacts to biological resources are consistent with impacts identified within the FEIR and implementation of these mitigation measures would reduce biological resource impacts to less than significant.

2.5 Cultural Resources

There is no change in the archaeological and historical resources during construction activities related to the proposed relocation of the existing 16-inch recycled water line and temporary staging area that would significantly impact cultural resources. There are archaeological/historical resources that are located within close proximity to the project site; however, none met the California Register of Historic Resource criteria or met the definition of a “unique archaeological resource” (ICF 2010). No human remains were identified during the surface survey during the preparation of the Sports Park and Recreation Center Project FEIR. In the unlikely event that archaeological/historical resources and/or human remains are encountered during grading or excavation activities during relocation of the existing pipeline, the following mitigation measures would reduce potential impacts to less than significant (ICF 2010, pp. 3.4-18, 3.4-19).

Mitigation Measures

CR-1 Archaeological construction monitoring.

In accordance with Public Resources Code Section 21083.2(i), should unidentified cultural resources be encountered during construction, work in the immediate vicinity of the find shall cease until a qualified archaeologist can evaluate the find for CRHR eligibility and determine whether it constitutes a unique archaeological resource for purposes of CEQA. Should the accidental discovery be identified as a significant historical resource, or a unique archaeological resource, appropriate treatment recommendations will be developed, which may include avoidance, data recovery excavation, or other mitigation. The following mitigation measures from the OSA PEIR would be applicable to archaeological construction monitoring (Mitigation Measure CR-1) for the proposed project:

- If artifacts are uncovered, they shall be prepared, identified, and cataloged before donation to the accredited repository designated by the City of Lake Forest. State of California Guidelines for the Curation of Archaeological Collections shall be consulted regarding the treatment of recovered artifacts. Any artifacts determined to be insignificant shall be offered to local schools for use in education programs (OSA Mitigation Measure 3.5-3).
- The If a qualified archaeologist is retained should unidentified cultural resources be encountered, the qualified archaeologist shall prepare a final report to be filed with the City. The qualified archaeologist retained shall prepare a final report to

be filed with the site developer(s), the City of Lake Forest, and the South Coast Central Information Center. The report shall include a list of specimens recovered, documentation of each locality, and interpretation of artifacts recovered as well as all specialists' reports as appendices (OSA Mitigation Measure 3.5-4).

CR-2

Consultation with county coroner and notification of most likely descendant.

If human remains are encountered, California Health and Safety Code Section 7050.5 states that no further disturbance can occur until the county coroner has made a determination of origin and disposition pursuant to California Public Resources Code Section 5097.98. The county coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the coroner will notify the NAHC, which will determine and notify the most likely descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials.

Impacts to cultural resources are consistent with those found within FEIR and implementation of these mitigation measures, as needed, would reduce cultural resource impacts to less than significant.

2.6 Geology and Soils

There will be no change in stormwater runoff and subsequent soil erosion impacts resulting from ground disturbance during the relocation of the pipeline. The proposed relocation of the existing 16-inch pipeline would involve grading and excavation, which would not expose people or structures to seismic hazards. A temporary equipment staging area would likely only occur on paved areas of the IRWD facility depending upon construction conditions. No habitat structures are proposed and relocation of the existing pipeline would be engineered to avoid impacts to a piping failure. Construction would take approximately 2 months to complete and would include erosion control measures to minimize impacts on geology and soils during construction. As such, impacts related to geology and soils would be less than significant and no mitigation measures would be required.

2.7 Greenhouse Gases

The proposed relocation of the existing 16-inch recycled water line would involve the use of construction equipment for approximately 2 months. Due to the limited construction activities associated with the proposed project, greenhouse gas emissions are expected to be below a level of significance. Once constructed, the proposed project would not result in any additional impacts related to greenhouse gases that were not previously analyzed under the FEIR. Therefore, any potential greenhouse gas emissions associated with relocation of the existing pipeline would be less than significant and no mitigation measures would be required.

2.8 Growth-Inducing Impacts

The proposed relocation of the existing 16-inch recycled water line would not affect population, employment, or housing. As assessed in the FEIR, the reclaimed water line would serve the City of Lake Forest Sports Park, and no changes to land use or zoning designations to permit new residential or commercial development are proposed or are related to the proposed relocation of the reclaimed water line. Additionally, the relocation of the existing pipeline would not remove any obstacles to growth or otherwise result in the potential to induce population or economic growth. Therefore, no impacts related to growth-inducement are anticipated.

2.9 Hazards

There will be no change in the number of hazards encountered during relocation of the existing 16-inch recycled water line. The proposed relocation of the existing pipeline may involve introducing limited quantities of hazardous materials, such as diesel fuel, gasoline, lubricating oil, grease, and solvents. No acutely hazardous materials would be handled on site. Therefore, any impacts related to hazardous materials would be less than significant and no mitigation measures would be required.

2.10 Hydrology and Water Quality

The proposed project involves the relocation of a proposed below ground 16-inch pipeline that may result in minimal temporary changes to drainage patterns or stormwater runoff. These changes would be negligible when compared to the existing conditions. The proposed project would have a less than significant impact to the existing drainage pattern of the site and would not result in significant new hydrology or water quality impacts. Impacts to hydrology and water quality would be less than significant and no mitigation measures would be necessary.

2.11 Land Use and Planning

The proposed relocation of the existing 16-inch recycled water line would have no significant impacts on land use and planning. The relocated pipeline would be in a General Plan designation of Public Facility within the IRWD site and Regional Park/Open Space within the BRA10A site (City of Lake Forest 2010). The relocation of the existing pipeline would still be consistent with the City of Lake Forest General Plan and zoning designations for the site. Therefore, no impacts related to land use and planning are expected and no mitigation measures would be required.

2.12 Minerals

Portions of the proposed relocation of the existing 16-inch recycled water line and temporary staging area would be located in a state-designated MRZ-2 area for PCC-grade aggregate and sand resources (on the BRA10A parcel) (ICF 2010). However, the proposed pipeline realignment would not be located within the City's mineral resource overlay as depicted in the City's Land Use Policy Map. Relocation of the existing pipeline through BRA10A would occur following the completion of current mining operations and related reclamation on the parcel. Per the requirements of the reclamation plan, the site has been vacated as of November 15, 2010 (ICF 2010). Therefore, the proposed relocation of the existing pipeline and temporary staging area would have no loss of availability of a known mineral resource. Therefore, no impacts on mineral resources would occur and no mitigation measures would be required.

2.13 Noise

The proposed relocation of the existing 16-inch recycled water line would involve the use of grading and excavation equipment for approximately 2 months during construction. Indirect impacts could occur to birds nesting in habitat/vegetation areas adjacent to the work area as a result of noise and other construction-related disturbance. Sensitive wildlife potentially affected by noise and other construction-related disturbances include Cooper's hawk, yellow-breasted chat, southern California rufous-crowned sparrow, coastal California gnatcatcher, and coastal cactus wren. The relocation of the existing pipeline would occur outside the nesting gnatcatcher breeding season (February 15–July 15). Construction of the pipeline is anticipated to begin in fall 2012 and be completed prior to February 2013. However, in the event that construction would occur within the bird nesting season, Mitigation Measure BIO-4 would apply (ICF 2010, p. 3.3-14).

Mitigation Measures

BIO-4: If construction activities must occur during the nesting season (February 15 to September 1). All suitable habitat would be thoroughly surveyed for the presence of nesting birds by a qualified biologist before commencement of disturbance activities. If an active nest is detected, the vegetation containing the nest, along with a 200- to 300-foot buffer around it, would be flagged and avoided until the nest is no longer active, as determined by a qualified biologist.

Mitigation Measure BIO-4, as discussed in Section 2.4 above and in Section 3.3, Biological Resources, of the Sports Park and Recreation Center FEIR, addresses impacts on nesting birds by avoiding construction activities during the nesting season or establishing a buffer around nesting sites to reduce sound levels at nesting sites. Therefore, potential noise impacts would be reduced to a level that is less than significant.

2.14 Paleontological Resources

There is no change in the paleontological resources during construction activities related to the proposed relocation of the existing pipeline and temporary staging area that would significantly impact cultural resources. The project area is considered to have a High to Very High paleontological sensitivity rating and the fossils found within these geologic units were considered scientifically very significant and important for research and display (ICF 2010). Implementation of the applicable mitigation measures listed in the FEIR would ensure impacts to paleontological resources are less than significant (ICF 2010, pp. 3.12-6, 3.12-7, 3.12-8):

PALEO-2: Educate Construction Personnel in Recognizing Fossil Material. ~~The City IRWD~~ will ensure that all construction personnel receive training provided by an Orange County-certified professional paleontologist experienced in teaching non-specialists to ensure that they can recognize fossil materials in the event any are discovered during construction.

PALEO-4: Stop Work if Fossil Remains Are Encountered During Construction; Conduct Treatment as Appropriate. If fossil remains are discovered during project-related activities, activities in the vicinity of the find will stop immediately until a qualified professional paleontologist can assess the nature and importance of the find and a qualified professional paleontologist can recommend appropriate treatment. Treatment may include preparation and recovery of fossil materials so that they can be housed in an appropriate museum or university collection and may also include preparation of a report for publication describing the finds. ~~The City IRWD~~ will be responsible for ensuring that recommendations regarding treatment and reporting are implemented. The work will be conducted in conformance with the Orange County guidelines as defined in Eisentraut and Cooper (2002) and meet the requirements for recovery, salvage, laboratory preparation, preparation to the point of taxonomic identification, transferral, and preparation and submittal.

PALEO-6: Prepare, Identify, and Catalog Recovered Fossils (OSA MM 3.5-7). Fossils recovered shall be prepared, identified, and catalogued before donation to the accredited repository designated by the City of Lake Forest.

Impacts to paleontological resources would be encompassed within the scope of the paleontological resource impacts previously addressed in the FEIR and implementation of these mitigation measures would reduce paleontological resource impacts to less than significant.

2.15 Public Services/Utilities

The project would involve the relocation of the existing 16-inch recycled water line due to the change in design of the Sports Park, which resulted in the need for a modified alignment. The realignment of the pipeline would extend from IRWD-owned property through a parcel of land owned by BRA10A and then back on the Sports Park site. The pipeline would be temporarily out of service for short periods to connect to temporary and permanent improvements during the construction period.

The project would not require additional fire services and police protection, and would not result in impacts to schools, libraries, or other public facilities and does not require the construction or expansion of recreational facilities. The relocation of the pipeline would occur concurrently with the construction of the Sports Park and Recreation Center, which is currently underway. Therefore, impacts related to public services/utilities would be less than significant and no mitigation measures would be required.

2.16 Recreation

The relocation of the existing 16-inch water line would not be located within proximity to a local trail (City of Lake Forest 2010; ICF 2010). Therefore, impacts related to recreation would be less than significant and no mitigation measures would be required.

2.17 Transportation and Circulation

There would be no change in the temporary lane or road closures during construction activities related to the proposed relocation of the existing 16-inch recycled water line and temporary staging area that would interfere with bicycle or pedestrian circulation. There would be no change in traffic during construction activities related to the relocation of the existing pipeline and temporary staging area from construction trucks and vehicles associated with construction worker commutes. Therefore, impacts related to transportation and circulation would remain less than significant and no mitigation measures would be required.

3.0 DETERMINATION

Based on the information and analysis in this addendum, and pursuant to Section 15162 of the CEQA Guidelines, IRWD has determined that:

1. There are no substantial changes to the project that would require major revisions to the FEIR due to new, significant environmental effects or a substantial increase in the severity of impacts identified in the FEIR;
2. Substantial changes have not occurred in the circumstances under which the project is being undertaken that would require major revisions to the FEIR to disclose new, significant environmental effects or a substantial increase in the severity of the impacts identified in the FEIR; and
3. There is no new information of substantial importance not known at the time the FEIR was certified that shows the project would have any new significant effects not discussed in the certified FEIR or a substantial increase in the severity of the impacts identified in the FEIR, or that mitigation measures or alternatives previously found not feasible, or that are considerably different from those analyzed in the FEIR, would substantially reduce one or more significant effects.

4.0 REPORT PREPARERS

4.1 Irvine Ranch Water District

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4.2 Dudek

Asha Bleier, Project Manager

Rachel Struglia, Principal

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Tyler Friesen, GIS Analyst

Becky Golden-Harrell, Technical Editor

5.0 REFERENCES

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ICF. 2010. *City of Lake Forest Sports Park and Recreation Center Draft Environmental Impact Report*. December 2010.

APPENDIX A
Biological Resources Report

HARMSWORTH ASSOCIATES

Environmental Consultants

March 26, 2012

Mr. Chris Kessler
Irvine Ranch Water District
3512 Michelson Drive
Irvine, California 92612.

Re: Lake Forest Zone C Recycled Water Relocation Project Biological Assessment

Dear Mr. Kessler,

This letter documents the results of a biological assessment conducted at the Lake Forest Zone C Recycled Water Relocation Project in March, 2012 by Harmsworth Associates.

On March 23, 2011 HWA biologist Paul Galvin conducted a biological assessment at the project site. The project site consists of the proposed alignment of a relocated recycled water line, at the Lake Forest Zone C Reservoir (Figures 1 and 2). The project site is located in the city of Lake Forest, Orange County, California; northeast of Regency Lane. The project site is located within the non-reserve lands of the Orange County Natural Community Conservation Plan (NCCP/HCP) Central/Coastal Subregion; Central Subarea.

The proposed waterline realignment would run from the Zone C tank northeast through the Baker Ranch and then onto the future city Sports Park. The assessment was conducted within IRWD property and the Baker Ranch property only.

An area of landscaping surrounded the Reservoir and associated structures (Figure 3). This landscaping consisted of eucalyptus trees (*Eucalyptus* sp.), with an understory of lemonadeberry (*Rhus integrifolia*), prickly pear cactus (*Opuntia littoralis*) and California sagebrush (*Artemisia californica*). The landscaped area is maintained and watered.

Beyond the landscaped area, in both the IRWD property and the Baker Ranch property, the site consisted of mature coastal sage scrub (CSS). The CSS was dominated by California sagebrush, with prickly pear cactus and black sage (*Salvia mellifera*) also common. Laurel sumac (*Malosma laurina*), lemonadeberry, toyon (*Heteromeles arbutifolia*), deerweed (*Lotus scoparius*), mulefat (*Baccharis salicifolia*) and everlasting (*Gnaphalium* sp.) were also present (Photographs 1-3).

The site provides suitable habitat for the California gnatcatcher (*Polioptila californica californica*) and the San Diego cactus wren (*Campylorhynchus brunneicapillus sandiegensis*). A pair of gnatcatchers was observed onsite during the survey; and a pair of wrens and an occupied wren nest was also detected onsite (Photograph 4).

The site area also supports other wildlife including; Anna' hummingbird (*Calypte anna*), Bewick's wren (*Thryomanes bewickii*), wrenit (*Chamaea fasciata*), Common bushtit (*Psaltiriparus minimus*), California towhee (*Pipilo crissalis*), spotted towhee (*Pipilo maculatus*), house finch (*Carpodacus mexicanus*) and lesser goldfinch (*Carduelis psaltria*).

If you need additional information please contact me at (714) 389-9527.

Yours sincerely,
Harmsworth Associates

A handwritten signature in black ink, appearing to read "Paul Galvin". The signature is written in a cursive, flowing style.

Paul Galvin, M.S.
Vice President

CC: Randy Sundberg (IRWD)

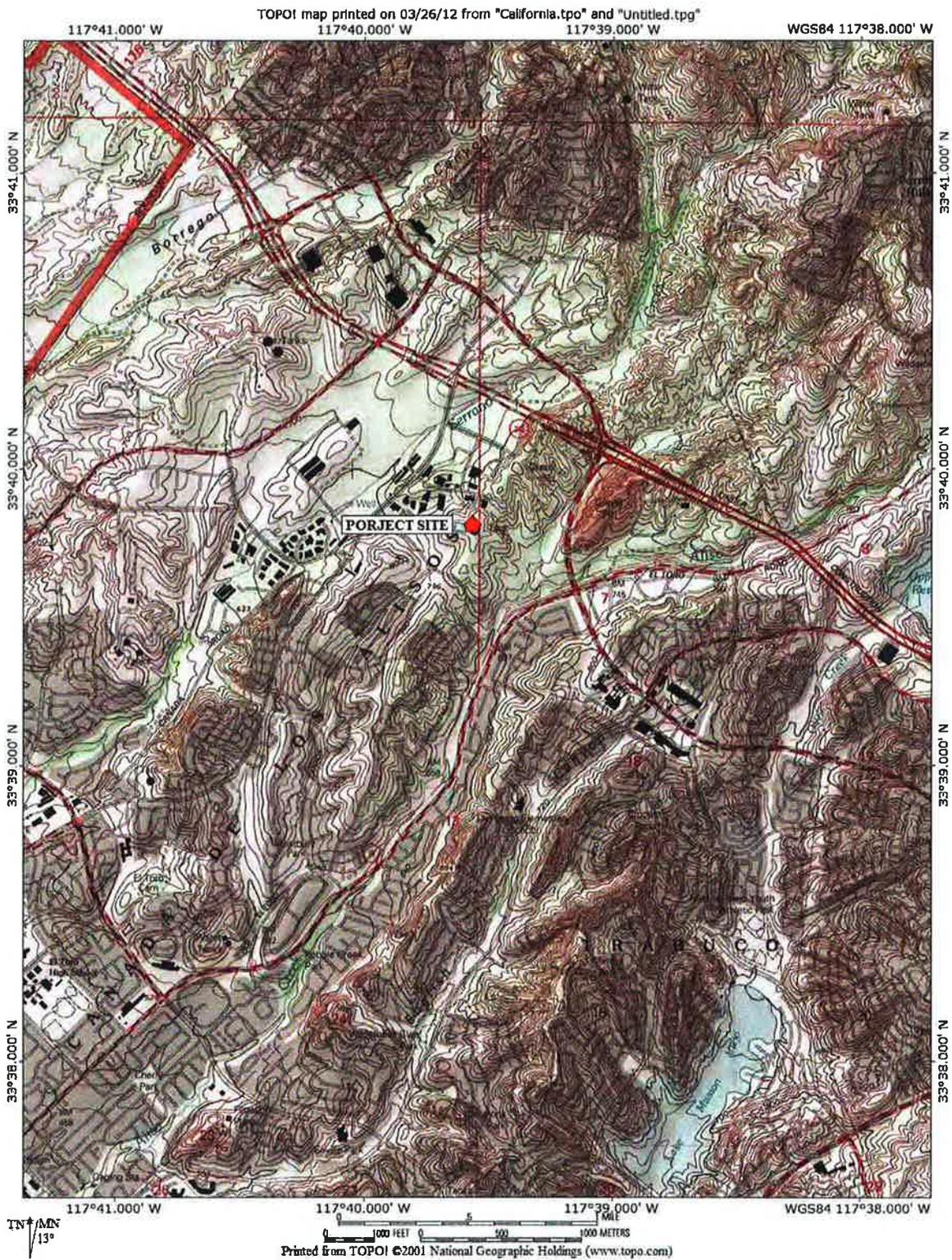


Figure 1: Lake Forest Zone C Recycled Water Relocation Project site, Lake Forest, California. Source: USGS topo.



SCALE: 1"=40'

A-43



ZONE II EAST
RESERVOIR
DOMESTIC
WATER

IRWD

BAKER RANCH

SPORTS PARK

SPORTS PARK

16" CML&C STEEL PIPE
RECYCLED WATER MAIN



Figure 3: Vegetation map of the project site.



Photograph 1: Landscaped area adjacent reservoir.



Photograph 2: CSS along proposed alignment, looking towards reservoir.



Photograph 3: CSS along proposed alignment, looking towards the north.



Photograph 4: Cactus wren nest in prickly pear cactus, outside proposed alignment.

APPENDIX B

Nature Reserve of Orange County Letter

HARMSWORTH ASSOCIATES

Environmental Consultants

August 8, 2012

Jonathan Snyder
US Fish and Wildlife Service
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Carlsbad, CA 92008

David Mayer
Department of Fish and Game
4949 Viewridge Avenue
San Diego, CA 92123

Lyn McAfee
Director
Nature Reserve of Orange County
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Irvine, CA 92618

Re: Lake Forest Zone C Recycled Waterline Relocation Off-Site Area

Dear Mr. Snyder; Mr. Mayer; Ms. Preston,

The City of Lake Forest is proposing to develop a new sports park and recreation center (City of Lake Forest Sports Park and Recreation Center) in the northeastern portion of the City near the intersection of Portola Parkway and El Toro Road. The proposed project consists of active and passive recreational uses. The City of Lake Forest is the lead agency for the proposed project environmental impact report (SCH #2009061020) pursuant to the State of California Environmental Quality Act (CEQA) Guidelines. The EIR analyses the potential impacts and provides mitigation measures for the proposed project, including compliance with the Orange County Natural Community Conservation Plan (NCCP/HCP) Central/Coastal Subregion.

As a result of the Sports Park an Irvine Ranch Water District (IRWD) recycled waterline that would provide water to the Sports Park would need to be re-located. The waterline would need to be re-located to an off-site area that was not addressed in the project's EIR or NCCP compliance. The re-located waterline would go through an area of coastal sage scrub within the non-reserve lands of the Orange County Natural Community Conservation Plan (NCCP/HCP) Central/Coastal Subregion; Central Subarea.

IRWD is obtaining approvals for relocation of the waterline in the off-site area, which includes IRWD property and the adjacent Baker Ranch Area 1 Owners Association (any impacts from portions of the waterline through the Sports Park were addressed in the EIR).

IRWD has contracted environmental consultant Dudek to prepare California Environmental Quality Act (CEQA) documentation for the project. After analysis of the recycled pipeline relocation project, IRWD found that an Addendum to the City of Lake Forest Sports Park and Recreation Center EIR would be the appropriate document as the biological impacts and mitigation measures associated with the project would be consistent with those found in the EIR.

The IRWD project area (the off-site portion of the waterline) consists of the proposed alignment of the 16" relocated recycled waterline, that would run from the Zone II East Reservoir IRWD property northeast through the Baker Ranch Area 1 Owners Association to the boundary with the future city Sports Park. The IRWD project site is located within the non-reserve lands of the Orange County Natural Community Conservation Plan (NCCP/HCP) Central/Coastal Subregion; Central Subarea.

The proposed impacts are within an area that was not owned or controlled by IRWD (or TIC) at the time that the NCCP/HCP was signed. This area therefore qualifies for use of the in-lieu fee to offset impacts to occupied or unoccupied CSS. However, as the impacts would be temporary, IRWD is proposing to restore the disturbed CSS area with CSS, rather than using the in-lieu fee program.

Project location and site description

The project site is located in the city of Lake Forest, Orange County, California; northeast of Regency Lane (Figures 1 and 2). The project site is located within the non-reserve lands of the Orange County Natural Community Conservation Plan (NCCP/HCP) Central/Coastal Subregion; Central Subarea. The proposed waterline realignment would run from the Zone II East Reservoir IRWD property northeast through the Baker Ranch Area 1 Owners Association to the boundary with the city Sports Park.

An area of landscaping surrounds the Reservoir and associated structures (Figure 3). This landscaping consisted of eucalyptus trees (*Eucalyptus* sp.), with an understory of lemonadeberry (*Rhus integrifolia*), prickly pear cactus (*Opuntia littoralis*) and California sagebrush (*Artemisia californica*). The landscaped area is maintained and watered.

Beyond the landscaped area, in both the IRWD property and the Baker Ranch Area 1 Owners Association property, the site consisted of mature coastal sage scrub (CSS). The CSS was dominated by California sagebrush, with prickly pear cactus and black sage (*Salvia mellifera*) also common. Laurel sumac (*Malosma laurina*), lemonadeberry, toyon (*Heteromeles arbutifolia*), deerweed (*Lotus scoparius*), mulefat (*Baccharis salicifolia*) and everlasting (*Gnaphalium* sp.) were also present (Photographs 1-3).

The site provides suitable habitat for the California gnatcatcher (*Poliophtila californica californica*) and the San Diego cactus wren (*Campylorhynchus brunneicapillus sandiegensis*). A pair of gnatcatchers was observed onsite and a pair of wrens and an occupied wren nest was also detected onsite (Photograph 4) during a survey conducted in March 2012. The birds have now completed nesting for the 2012 season.

The site area also supports other wildlife including; Anna' hummingbird (*Calypte anna*), Bewick's wren (*Thryomanes bewickii*), wrentit (*Chamaea fasciata*), Common bushtit (*Psaltriparus minimus*), California towhee (*Pipilo crissalis*), spotted towhee (*Pipilo maculatus*), house finch (*Carpodacus mexicanus*) and lesser goldfinch (*Carduelis psaltria*).

Proposed work plan

The proposed work plan is to clear a 20-foot path along the pipeline alignment, starting at the connection with the existing waterline on the southeast side of the reservoir and working towards the boundary with the Sports Park; a total length of approximately 498-feet. The first 258-feet of the alignment would be over existing paved areas, the remaining 240-feet would be over vegetated areas. All access would be along this cleared path, no additional work areas would be required. The trench would be dug, the pipe installed and the area back-filled. After project completion all contours would be restored to original grade.

Work is proposed to start in fall 2012 and would take approximately two months to complete. All work will be completed prior to the start of the bird nesting season in February.

Potential Impacts to Non-Reserve Areas

Temporary impacts (unavoidable clearing of bushes/shrubs) would occur to the 240-foot of vegetated areas as a result of the proposed waterline. This includes 0.083-acres of CSS and 0.028-acres of landscaping. It is anticipated that all cactus onsite can be avoided but if some impacts are un-avoidable the cactus will be salvaged and stored on-site for re-planting after project completion.

Monitoring plan

All work will be conducted in accordance with NCCP construction-related minimization measures (Pursuant to Mitigation Monitoring Program §10.1, items 1 through 6). Prior to any additional work the following monitoring and minimization measures will be implemented:

- The work area will be flagged,
- Pre-construction surveys will be conducted for California gnatcatcher and cactus wren,
- All work will be conducted outside the bird nesting season (February 15 – July 15),
- A monitoring biologist will be onsite during all construction work, to ensure compliance with the NCCP construction-related minimization measures,
- After project completion the work area will be cleaned up and all equipment, flagging etc removed from site,
- A post-construction assessment will be conducted by the biologist to document final impacts to CSS and cactus scrub,
- The impacted area will be restored as per the restoration plan,
- The site will be monitored and maintained for 3 years.

Mitigation

All work will be conducted in accordance with NCCP construction-related minimization measures (Pursuant to Mitigation Monitoring Program §10.1, items 1 through 6). All work will be conducted outside the bird nesting season (February 15 – July 15). In addition, prior to conducting any of the work, focused California gnatcatcher (*Polioptila californica californica*) and general bird surveys would be conducted to document any nesting birds in the work area. Any active bird nests would be protected by a 50-foot buffer, and would remain in place until the nest was complete and no longer being used by the birds.

A monitoring biologist will be present during all construction activity to ensure compliance with the NCCP IA. All disturbed areas will be restored to appropriate native habitats, after project completion.

The proposed impacts are within an area that was not owned or controlled by IRWD (or TIC) at the time that the NCCP/HCP was signed. This area therefore qualifies for use of the in-lieu fee to offset impacts to occupied or unoccupied CSS. However, as the impacts would be temporary, IRWD is proposing to restore the disturbed CSS area with CSS, rather than using the in-lieu fee program.

All disturbed areas onsite will be restored at a 1:1 ratio after project completion. The landscaped areas will be restored with the same landscaping mix as currently exists onsite (which is predominately a native CSS mix). The disturbed CSS area will be restored with CSS. CSS restoration will include a mixture of container plants and hand seeding with a standard CSS plant/seed mix.

Planting and seeding will take place after completion of the work and will be timed to coincide with natural rainfall (seeding will occur between November and February). Weeding will be conducted in the seeded areas, as necessary, during the first two years after seeding. The restored CSS will have 75% cover of native species within three years after planting/seeding.

If you need additional information please contact me at (714) 389-9527.

Yours sincerely,
Harmsworth Associates



Paul Galvin, M.S.
Vice President

CC: Christian Kessler (IRWD)

CSS planting list

Scientific Name	Common Name	Site A (upstream)
<i>Opuntia littoralis</i>	coast prickly pear cactus	10 (1 gallon)
<i>Artemisia californica</i>	Coastal sagebrush	10 (1 gallon)
<i>Encelia californica</i>	California encelia	10 (1 gallon)
<i>Eriogonum fasciculatum</i>	California buckwheat	10 (1 gallon)

CSS seed mix

Scientific Name	Common Name	Seed Quantity (lbs/acre)
<i>Artemisia californica</i>	California sagebrush	3.0
<i>Bromus carinatus</i>	California brome	5.0
<i>Encelia californica</i>	California encelia	1.0
<i>Eriogonum fasciculatum</i>	California buckwheat	5.0
<i>Eriophyllum confertiflorum</i>	Golden yarrow	2.0
<i>Eschscholzia californica</i>	California poppy	2.0
<i>Hemizonia fasciculata</i>	Fascicled tarweed	1.0
<i>Isocoma menziesii</i>	Coastal goldenrod	1.0
<i>Lasthenia californica</i>	Coastal goldfields	2.0
<i>Melica imperfecta</i>	Melic grass	1.5
<i>Mimulus aurantiacus</i>	Bush monkeyflower	2.0
<i>Nassella pulchra</i>	Purple needlegrass	4.0
<i>Nassella lepida</i>	Foothill needlegrass	4.0
<i>Plantago erecta</i>	Dwarf plantain	4.0
<i>Vulpia microstachys</i>	Small fescue	5.0
TOTAL		42.5



Figure 1: Lake Forest Zone C Recycled Water Relocation Project site, Lake Forest, California. Source: USGS topo.



Figure 3: Vegetation map of the project site.

August 27, 2012

Prepared by: S. Malloy

Submitted by: K. Burton

Approved by: Paul Cook

CONSENT CALENDAR

MICHELSON WATER RECYCLING PLANT BIOSOLIDS HANDLING AND ENERGY RECOVERY FACILITIES AND BAKER WATER TREATMENT PLANT – FINDING OF SUBSTANTIAL COMPLEXITY

SUMMARY:

The Michelson Water Recycling Plant (MWRP) Biosolids Handling and Energy Recovery Facilities and the Baker Water Treatment Plant are currently being designed and the advertisements for construction bids for each project are scheduled to begin within the next six months. Staff recommends that the Board finds that both projects are substantially complex and, therefore, both projects require a retention of 10 percent of the contract price during the construction phase of each project.

BACKGROUND:

Senate Bill (SB) 293 was passed by the California Legislature and signed by the Governor of California in 2011. Taking effect on January 1, 2012, SB 293 limits the retention of public works projects to no more than five percent of the contract price unless the governing board of the public entity finds that the construction project is substantially complex.

The MWRP Biosolids Handling and Energy Recovery Facilities will provide biosolids digestion, dewatering, energy production, and on-site sludge drying. The project will also include the installation of an estimated 3,000 foundation piles, a state-of-the-art odor control system, emergency power generation, sub-surface structures, and new utility services. These facilities will be constructed on the vacant land north of the existing Operations Center, maintenance shops, laboratory, and warehouse.

The Baker Water Treatment Plant will be a new 28 million gallon day plant at IRWD's Baker Filter Plant site in Lake Forest. The Baker Water Treatment Plant will treat untreated water from the Santiago Lateral and Irvine Lake conveyed through the Baker Pipeline. This new facility will greatly enhance both treated water supply and water system reliability in South Orange County. The project will include the construction of pipelines, pump stations, chemical systems, new buildings, membrane filtration treatment system, and residuals handling facilities.

Both projects require coordination between multiple disciplines (including structural, architectural, mechanical, process, electrical, and instrumentation) along with coordination between a variety of cities, utilities, and other governing agencies. Both projects are surrounded by nearby residential neighborhoods such that extensive public outreach is required. Additionally, both projects are to be delivered within aggressive construction periods. Therefore, each project is substantially complex, necessitating a higher retention than five percent during the construction phase.

As stipulated in SB 293, this finding, along with the actual retention amount of 10 percent, will be included in the bid documents of each project.

FISCAL IMPACTS:

The MWRP Biosolids Handling and Energy Recovery Facilities project and the Baker Water Treatment Plant project are both included in the FY 2012-13 Capital Budget. This finding will have no fiscal impact to either project.

ENVIRONMENTAL COMPLIANCE:

The MWRP Biosolids Handling and Energy Recovery Facilities is subject to the California Environmental Quality Act (CEQA) and in conformance with California Code of Regulations Title 14, Chapter 3, Article 7. A supplemental Environmental Impact Report (EIR) is being prepared.

The Baker Water Treatment Plant is subject to CEQA and an EIR was prepared in conformance with California Code of Regulations Title 14, Chapter 3, Article 7. The Final EIR was certified and adopted by the Board in April 2011. An EIR addendum for the evaluation of the residuals handling facilities will be presented to the Board for approval later this year.

COMMITTEE STATUS:

This item was reviewed at the Engineering and Operations Committee on August 14, 2012.

RECOMMENDATION:

THAT THE BOARD FINDS THAT THE MWRP BIOSOLIDS HANDLING AND ENERGY RECOVERY FACILITIES PROJECT 20847 (1617) AND THE BAKER WATER TREATMENT PLANT PROJECT 11218 (1417) ARE BOTH SUBSTANTIALLY COMPLEX AND REQUIRE A RETENTION OF 10 PERCENT OF THE CONTRACT PRICE DURING THE CONSTRUCTION PHASE OF EACH PROJECT.

LIST OF EXHIBITS:

None.

August 27, 2012
Prepared by: S. Malloy/C. Spangenberg
Submitted by: K. Burton
Approved by: Paul Cook

CONSENT CALENDAR

MICHELSON WATER RECYCLING PLANT BIOSOLIDS HANDLING AND ENERGY RECOVERY FACILITIES VARIANCE

SUMMARY:

Design of the Michelson Water Recycling Plant (MWRP) Biosolids Handling and Energy Recovery Facilities will be completed in September 2012. Additional effort is needed by Environ to complete the air permit applications in response to comments made by the South Coast Air Quality Management District (SCAQMD). Staff recommends that the Board authorize the General Manager to execute Variance No. 4, in the amount of \$24,000, with Environ for engineering services to complete the air permit application package for the MWRP Biosolids Handling and Energy Recovery Facilities.

BACKGROUND:

Environ was contracted by IRWD to prepare the air permit applications for the MWRP Biosolids Handling and Energy Recovery Facilities. The applications were submitted to SCAQMD in April 2012. SCAQMD has requested additional information. Variance No. 4 with Environ will cover the following additional engineering services:

- Revise the permit applications, complete additional forms, and provide technical information related to various pieces of equipment at the request of the SCAQMD;
- Revise the emergency generator application due to the increase in size from 750KW to 1,000KW; and
- Provide additional staff time to address any questions from SCAQMD after the revisions have been submitted.

SCAQMD is concurrently reviewing the application package and anticipates that the Permit to Construct will be processed in time to meet IRWD's construction schedule. Variance No. 4 in the amount of \$24,000 is attached as Exhibit "A".

FISCAL IMPACTS:

The Biosolids Handling and Energy Recovery Facilities, Project 20847 (1617), is included in the FY 2012-13 Capital Budget. The existing budget and Expenditure Authorization are sufficient to fund Variance No. 4 with Environ.

ENVIRONMENTAL COMPLIANCE:

The Michelson Water Recycling Plant Biosolids Handling and Energy Recovery Facilities is subject to CEQA and in conformance with the California Code of Regulations Title 14, Chapter 3, Article 7, a Supplemental Environmental Impact Report (SEIR) is being prepared. Staff anticipates bringing the SEIR to the Board for adoption in September 2012.

COMMITTEE STATUS:

This item was reviewed at the Engineering and Operations Committee on August 14, 2012.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE VARIANCE NO. 4, IN THE AMOUNT OF \$24,000, WITH ENVIRON FOR ENGINEERING SERVICES TO COMPLETE THE AIR PERMIT APPLICATION PACKAGE FOR THE MICHELSON WATER RECYCLING PLANT BIOSOLIDS HANDLING AND ENERGY RECOVERY FACILITIES, PROJECT 20847 (1617).

LIST OF EXHIBITS:

Exhibit "A" – Variance No. 4 – Environ

EXHIBIT "A"

IRVINE RANCH WATER DISTRICT PROFESSIONAL SERVICES VARIANCE

Project Title: MWRP Biosolids Handling & Energy Recovery Facility File No.: _____
 Date: August 14, 2012
 Variance No.: #4
 Project No.: 20759/20847 Project No. 20759/20847
 Purchase Order No.: 124442

Originator: IRWD ENGINEER/CONSULTANT Other (Explain) _____

Description of Variance (attach any back-up material):
See attached scope of work

Engineering & Management Cost Impact:

Classification	Manhours	Billing Rate	Labor \$	Direct Costs	Subcon. \$	Total \$
Principal	16	\$250	\$4,000	\$205		\$4,205
Manager 9	30	\$195	\$5,850	\$350		\$6,200
Senior Associate 6B	85	\$145	\$12,615	\$760		\$13,375
Support	3	\$60	\$180	\$40		\$220
Total \$ =						\$24,000

Schedule Impact:

Task No.	Task Description	Original Schedule	Schedule Variance	New Schedule
1	Emission Calculations	March 2011	January, 2012	No change requested in this Variance
2	Preparation of Permit Applications	March 2011	January, 2012	
3	Communication with SCAQMD	April 2011	As needed	
4	Conference calls/meetings	As needed	As needed	
5	CEQA air quality assistance	As needed	As needed	
6	Facility PTE	---	January, 2012	

Required Approval Determination:

<p>Total Original Contract <u>\$19,000</u></p> <p>Previous Variances \$ <u>72,600</u></p> <p>This Variance <u>\$24,000</u></p> <p>Total Sum of Variances <u>\$96,600</u></p> <p>New Contract Amount <u>\$115,600</u></p> <p>Percentage of Total Variances to Original Contract <u>608</u> %</p>	<p><input type="checkbox"/> General Manager: Single Variance less than or equal to \$30,000.</p> <p><input type="checkbox"/> Committee: Single Variance greater than \$30,000, and less than or equal to \$60,000.</p> <p><input type="checkbox"/> Board: Single Variance greater than \$60,000.</p> <p><input checked="" type="checkbox"/> Board: Cumulative total of Variances greater than \$60,000, or 30% of the original contract, whichever is higher.</p>
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ENGINEER/CONSULTANT: ENVIRON International Corporation IRVINE RANCH WATER DISTRICT
 Company Name

Project Engineer/Manager Julia C. Herbst Date 08/14/2012
 Engineer's/Consultant's Management Date
 Department Director Samuel Date 8/15/12
 General Manager/Comm./Board Date

IRVINE RANCH WATER DISTRICT

PROFESSIONAL SERVICES VARIANCE REGISTER

Project Title: MWRP Biosolids Handling & Energy Recovery Facility

Project No.: 20759

Project Manager: _____

Variance No.	Description	Dates		Variance Amount
		Initiated	Approved	
1	Revision/addition of tasks related to project changes	10/29/10	11/10/10	\$26,500
2	Revision/addition of tasks related to project changes	10/11/11	10/21/11	\$16,100
3	Revision/addition of tasks related to project changes	12/23/11	1/24/12	\$30,000
4	Revision/addition of tasks related to project changes	08/14/2012		\$24,000

August 14, 2012

Via Electronic Mail (in PDF)

Steve Malloy
Principal Engineer – Capital Projects
Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, California 92618

**Re: Additional Scope of Work and Cost Estimate (Variance #4) for
Irvine Ranch Water District (IRWD) MWRP Biosolids Project Air Permitting**

Dear Mr. Malloy:

Per our discussions, ENVIRON International Corporation (ENVIRON) has prepared this authorization request for additional work not anticipated in the original February 19, 2010 scope of work and the subsequent Variances #1, #2, and #3, approved November 4, 2010, October 14, 2011, and January 24, 2012, respectively.

Revised Scope of Work

This section presents the revised scope of work, including the original February 19, 2010 scope (authorized by the April 29, 2010 Notice to Proceed PR 20759), Variance #1 authorized on November 4, 2010, Variance #2 authorized on October 14, 2011, Variance #3 authorized on January 24, 2012, and additional work needed to complete the preparation of the permit application for the B&V design.

Task 1: Emission Calculations

The original scope, Variances #1 - 3 included the following tasks:

- Refine the emission calculations prepared based on the HDR design.
- Provide additional updates to the emission calculations based on minor changes to the proposed process.
- Perform a health risk assessment of the toxic air contaminants that may include air dispersion modeling dispersion using SCREEN3 for equipment included in original project description.
- Conduct specific calculations to confirm regulatory compliance for all applicable regulations.
- Reassess and calculate emissions based on the B&V design.
- Updated emission calculations and application to reflect changes in operating scenarios.
- Conducted additional SCREEN3 modeling.

No changes in Task 1 are being requested under Variance #4.

Task 2: Preparation of the Permit Application

Under the original February 2010 scope of work, ENVIRON included the following:

“The permit application includes preparation of a process description including a description of each emission point and the history of the current operations at the facility. The write-up

will also include a summary of ENVIRON's regulatory review of local, state, and federal regulations as they apply to the proposed project. In addition ENVIRON will prepare a description of how the emissions were calculated, complete the applicable SCAQMD forms and calculate the application fees. The application will be prepared according to the requirements for Certified Permitting Professionals (CPP) which should help to expedite the SCAQMD's review of the permit application."

Due to changes in the operating scenarios and the equipment list provided in the original application and Variances #1-3, ENVIRON will need to spend additional time revising the draft application to incorporate the proposed changes. ENVIRON has also been tasked with assessing whether the change in the emergency generator rating will affect the conclusions made in the final application. In addition, ENVIRON provided updated forms and details for the SCAQMD for the change in the generator rating. For this purpose, ENVIRON requests additional budget to encompass this expanded scope for finalization of the permit application based on the project description provided to date.

Task 3: Communication with SCAQMD

Under the original February 2010 scope of work, ENVIRON included the following:

"After the permit application is submitted to the SCAQMD, ENVIRON will assist the SCAQMD permit engineer regarding any follow-up questions that may arise. This will help to expedite the permit application and help IRWD obtain appropriate permit conditions."

With Variance #1, an increase in scope was included to cover one in-person meeting at the SCAQMD (an application submittal meeting). Variances #2 and 3 were approved to incorporate additional SCAQMD meeting preparation work and conference calls with SCAQMD after the application is submitted to address comments or questions. ENVIRON has included additional budget to account for additional communications with the SCAQMD to address comments or questions on the application.

Task 4: Conference Calls, Project Management, and Miscellaneous Tasks

Under the original February 2010 scope of work, ENVIRON included the following:

"This task will cover the costs of conference calls and meetings that ENVIRON may have with HDR and IRWD regarding the permit application. In addition, the task will cover general project management costs and minor miscellaneous tasks that may arise outside of the scope of tasks 1 through 3."

In order to accommodate the new project design and requested assistance, ENVIRON included in Variance #1 additional budget for the August 4, 2010 kick-off meeting with B&V and three additional conference calls to discuss the B&V design and related air emissions. Variance #2 included four additional 1-hour conference calls to finalize the application and address post-submittal comments and questions from the SCAQMD. No further change in Task 4 is requested under this revised scope of work.

Task 5: California Environmental Quality Act (CEQA) Air Quality Assistance

At the request of IRWD, ENVIRON will also coordinate with IRWD's subcontractor tasked with preparing the CEQA analysis document in order to provide assistance with the required air quality analysis. Work under this task will be conducted with prior approval of IRWD on an as-needed basis.

Costing includes 4 conference calls and a review and general comment of the draft air quality impact section of the draft EIR. No further change in Task 5 is requested under this revised scope of work.

Task 6: Existing Facility Potential to Emit

At the request of IRWD, Variance #2 included calculation of the existing facility's potential to emit (PTE) for purposes of assessing the facility's Title V major source status with operation of the proposed biosolids project. This task assumed that IRWD will provide details on the existing equipment and previous emission factors and/or methodologies used for estimating emissions for the facility. Additional time was needed to track down additional emission factors not provided by IRWD as assumed under Variance #2, as well as to verify/correct information used in previous Annual Emission Reports or applications for purposes of calculating the facility-wide PTE. In addition, ENVIRON updated the PTE calculations based on revised information gathered by IRWD. Under Variance #3, ENVIRON requested additional budget to encompass this expanded scope to finalize the existing facility-wide PTE. No further change in Task 6 is requested under this revised scope of work.

Schedule

The final permit application was submitted in May, 2012. Tasks under this revised scope of work will be conducted on an as-needed basis.

Cost Estimate

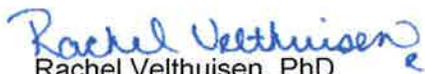
The estimated total cost for the post-February 2010 and Variances #1-3 additional scope of work items is \$24,000, for a total budget of \$115,600. The cost estimate does not include the SCAQMD permitting fees. Costs are based on a time-and-materials basis using our current rates and the terms and conditions approved under the April Notice to Proceed PR 20759. The costs are split out by task in the table below for informational purposes only.

Original Task Number/Description	Original Scope/Variations #1 & #2 Cost	Additional Scope Cost	Total Cost
Task 1 Emission Calculations	\$28,700	--	\$28,700
Task 2. Preparation of the Permit Application	\$15,800	\$14,000	\$29,800
Task 3. Communication with SCAQMD	\$13,500	\$10,000	\$23,500
Task 4. Conference Calls, Project Management, and Miscellaneous Tasks	\$15,900	--	\$15,900
Task 5. CEQA Air Quality Assistance	\$8,000	--	\$8,000
Task 6. Facility-wide PTE Calculations	\$9,700	--	\$9,700
Total	\$91,600	\$24,000	\$115,600

Category (Proposed Variance #3)	Hours	Cost
Principal	16	\$4,205
Manager 8, 9 & 10	30	\$6,200
Associate 4, 5, 6, 6B, 7	85	\$13,375
Support and Miscellaneous	3	\$220
Total:	134	\$24,000

Please feel free to call Julia Lester at (213) 943-6329 or Rachel Velthuisen at (213) 943-6349 if you have any comments or questions about this proposal.

Sincerely,


Rachel Velthuisen, PhD
Senior Manager


Julia C. Lester, PhD
Principal

RV:nv

P:\Irvine Ranch Water District\0524406A MWRP Biosolids Permit Assist\Admin\IRWD updated scope Variance #4 081412.docx

August 27, 2012

Prepared by: S. Bomkamp/R. Mori

Submitted by: K. Burton

Approved by: Paul Cook 

CONSENT CALENDAR

WELLS 21 AND 22 WELLHEAD FACILITIES SUBCONTRACTOR SUBSTITUTION

SUMMARY:

The Wells 21 and 22 Wellhead Facilities are being constructed by F. T. Ziebarth Company. Ziebarth has informed the District that its named electrical contractor has experienced financial difficulties and will not be able to complete its work. Staff recommends that the Board authorize substitution of the electrical subcontractor in accordance with California Public Contract Code 4107.

BACKGROUND:

The construction contract for the Wells 21 and 22 Wellhead Facilities was awarded to F. T. Ziebarth Company in July 2011 in the amount of \$2,183,700. The project will equip each well with a submersible pump in a vault, provide on-site mechanical and electrical facilities, and perform site enhancements to more closely match the style and aesthetics of the adjacent residential community. The finished well sites will provide raw water for the Wells 21 and 22 Design-Build Desalter Plant currently being constructed by Pascal & Ludwig via the untreated water pipeline currently being constructed by Flatiron West. The Wells 21 and 22 Projects are receiving 25% matching funds, up to a maximum of \$11,700,000, in Title XVI funding through the United States Bureau of Reclamation from the American Recovery and Reinvestment Act of 2009.

Subcontractor Substitution:

The Wells 21 and 22 Wellhead Facilities Project has been progressing since July 2011 with the overall facilities being approximately 80% complete at this time. The electrical work is estimated to be approximately 85% complete. The electrical subcontractor on this project, So-Cal Electric, has provided notice that it is terminating operations due to severe financial hardship and will be unable to complete the remaining work on the project. Ziebarth has submitted a letter, attached as Exhibit "A", to the District requesting substitution of the electrical subcontractor in accordance with California Public Contract Code 4107 at no additional cost to IRWD. So-Cal Electric has issued a letter, attached as Exhibit "B", stating concurrence with the proposed substitution.

The proposed substitute electrical subcontractor is Halcyon Electric. Halcyon Electric has good standing with IRWD from other projects, including the Wells 21 and 22 Desalter Plant Project that is closely related to the Wellheads Facilities Project. Staff recommends that the Board authorize the proposed subcontractor substitution in accordance with California Public Contract Code 4107.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

This project is subject to the California Environmental Quality Act. In conformance with the California Code of Regulations Title 14, Chapter 3, Section 15004, a Mitigated Negative Declaration was adopted February 8, 2010. To fulfill requirements of the American Recovery and Reinvestment Act of 2009, the project is also subject to compliance with the National Environmental Policy Act (NEPA). An Environmental Assessment was prepared to achieve NEPA compliance for the project and the USBR has adopted a Categorical Exemption for the project.

COMMITTEE STATUS:

This item was not reviewed by the Engineering and Operations Committee due to the timing of the request for substitution.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE SUBSTITUTION OF THE ELECTRICAL SUBCONTRACTOR IN ACCORDANCE WITH CALIFORNIA PUBLIC CONTRACT CODE 4107.

LIST OF EXHIBITS:

Exhibit "A" – F. T. Ziebarth's Substitution Request Letter

Exhibit "B" – So-Cal Electric's Concurrence Letter

EXHIBIT "A"
F.T. ZIEBARTH COMPANY

P.O. BOX 4173 • FULLERTON, CA 92834-4173
920 E. WALNUT AVENUE • FULLERTON, CA 92831-4534
(714) 992-5151 • FAX: (714) 992-4151

August 22, 2012

Irvine Ranch Water District
15600 Sand Canyon Ave
Irvine, CA 92619-7000

Attn: Steve Bomkamp

Reference: **WELLS 21 & 22 DESALTER PROJECT WELLHEAD FACILITIES
PROJECT NO 102896, IRWD CODE 5503**

SUBSTITUTION OF ELECTRICAL SUBCONTRACTOR

Dear Steve:

Our electrical subcontractor on the above referenced project, So-Cal Electric Inc. has stopped performing work on the site. We have notified So-Cal Electric through numerous e-mails and phone calls that they are delaying progress, and they have failed to respond in any meaningful way. All of our calls about significant electrical issues go unanswered, and no one from So-Cal has been on site in over a month.

All major electrical equipment has been installed, all big power cables have been pulled in, and power is turned on at both sites. What's needed is mostly labor and incidentals to complete wiring, and knowledgeable electricians to work with the equipment manufacturers to start up and test the new equipment.

Time is of the essence for this project, and we need competent electricians on the job as soon as possible. We have contacted Halcyon Electric, the current electrical subcontractor for the treatment plant and whom we have a good working relationship, and they have agreed to step in and finish the electrical for our project.

Per section 4107.a.3 of the California Public Contracting Code, we request permission to substitute Halcyon Electric in place of So-Cal Electric, due to So-Cal's failure to perform on their subcontract. We will have Halcyon Electric finish the electrical for the project at no additional cost to the District.

We regret any inconvenience to the District that is caused by this issue, however we need to make this change in order to keep progress moving on the wellhead facilities. If you have any questions regarding this matter, please do not hesitate to contact me.

Very Truly Yours,

A handwritten signature in blue ink, appearing to read 'Rob Ziebarth', with a long horizontal line extending to the right.

Rob Ziebarth

F.T. ZIEBARTH COMPANY

EXHIBIT "B"



Electrical/Instrumentation Contractors
23811 Washington Ave. C110-374
Murrieta, CA 92562
Ph (951) 698-6599
Fax (951) 677-4722
Lic. No. 853760

Wednesday, August 22, 2012

F.T. Ziebarth Company
920 E. Walnut Avenue
Fullerton, CA 92831

Attn: Rob Ziebarth

RE: 48 Hour Notice on **WELLS 21&22 DESALTER PROJECT WELLHEAD FACILITIES
IRVINE RANCH WATER DISTRICT**

Dear Rob;

This correspondence is in response to your "48 Hour Notice Letter" dated 8/22/2012 and received by this office on 8/22/2012. So-Cal Electric will not comply with the request in your letter and we will not be mobilizing the site to complete the electrical and instrumentation work on this project.

I confirm that it has been over 30 days since we have been at the above referenced job site, as stated in your letter, and I offer the following explanation for our lack of action.

So-Cal Electric has fallen on severe financial hardship due to the poor economy. We have incurred fatal losses on our recent projects due to the inability to procure jobs in this down market with enough margins to cover our costs as well as the escalated prices of fuel, materials, equipment and labor.

So-Cal Electric has reached the point of cash flow and balance sheet insolvency and the result of this condition is the necessity of the company to shut down and close its doors for good, layoff all of our employees and sell off all of our equipment to cover our debts.

We regret this matter occurred during this project but there is nothing we can do to continue on.

Per your letter, you have my permission to immediately cancel our subcontract and replace us with a different Electrical Contractor at our expense with what is left on our contract.

We will cooperate with IRWD and The F.T. Ziebarth Company to help layout the new Electrical Contractor as best we can. We will turn over all drawings and any stored materials pertaining to this project as well as any as-build drawings.

Sincerely,
David R. Leonard
President
So-Cal Electric

August 27, 2012

Prepared by: S. Malloy

Submitted by: K. Burton

Approved by: Paul Cook



ACTION CALENDAR

MICHELSON WATER RECYCLING PLANT PHASE 2 EXPANSION CONTRACT CHANGE ORDER NO. 77

SUMMARY:

The Michelson Water Recycling Plant (MWRP) Phase 2 Expansion and Flood Protection Improvements are currently being constructed by J. R. Filanc Construction Company (Filanc). Staff recommends that the Board approve Contract Change Order (CCO) No. 77 in an amount of \$151,336.95, for rehabilitative repairs to the chlorine contact tank for the MWRP Phase 2 Expansion.

BACKGROUND:

Construction of the MWRP Phase 2 Expansion and Flood Protection Improvements project was awarded to J. R. Filanc Construction, Co. in July 2009 in the amount of \$87,479,450. This project will expand the recycled water production capacity of MWRP to 28 million gallons per day and protect MWRP from flooding by the San Diego Creek. A project overview diagram of the MWRP Phase 2 Expansion is attached as Exhibit "A".

Contract Change Order No. 77:

The existing chlorine contact tank at MWRP has been in service since 1979. To extend the tank's service life, the MWRP Phase 2 Expansion design team in 2009 anticipated the need to recoat the tank with a mortar cladding followed by an epoxy coating system. However, during design the tank was not inspected as doing so would require a plant shut-down and diversion of all flows to Orange County Sanitation District.

Prior to the tank recoating by Filanc, the tank was drained and staff requested Harper and Associates (Harper), a coating and corrosion engineering specialist, to evaluate the condition of the tank to verify if further rehabilitation measures, other than recoating the tank, were required.

Harper identified extensive deficiencies that required repairs and recommended the following:

1. Remove all existing joint sealants and abrasively blast clean surfaces to remove all sealant residue and loose concrete, as shown in Exhibit "B". Following this, fill the joints with a polyurethane elastomeric sealant;
2. Abrasively clean numerous random hairline cracks, spalls, and rust tubercles by "brush-off blast-cleaning", chipping and/or grinding to remove any loose material. Afterwards, apply a cementitious material;
3. Inject cracks wider than 0.01 inches with polyurethane resin;
4. Prior to application of the coating, apply an epoxy mortar surface filler to fill all bug holes and rough surfaces. Because of the extent of deterioration present in the tank, major surface filling is required; and

5. Abrasively blast clean all steel surfaces to near white and coat with 100% solids epoxy system.

In addition to these recommendations, staff identified the following rehabilitative items in the chlorine contact tank for Filanc to perform:

1. Remove, clean, and re-install stainless steel screens, as shown in Exhibit "C";
2. Remove and dispose inoperable slide gates and patch the remaining bolt holes, as shown in Exhibit "C";
3. Remove and dispose one non-operational slide gate and install a new 3' X 3' stainless steel 316 slide gate, as shown in Exhibit "C";
4. Remove and dispose unused or abandoned miscellaneous steel piping and install bulkhead, as shown in Exhibit "D"; and
5. To ensure personnel safety, repair concrete spalls and cracks where the posts of safety railing and light poles are located, as shown in Exhibit "E".

CCO No. 77 is for the equipment, material, and labor to perform the aforementioned repairs to the chlorine contact tank and related rehabilitative measures. CCO No. 77 in the amount of \$151,336.95 is attached as Exhibit "F". These additional work items were implemented at the same time that the recoating of the tank occurred per the original scope of work, which for comparison purpose was valued at approximately \$890,000. The work was tracked on a time and materials basis using inspectors from both Harper and the construction management team. The contractor and their painting subcontractor worked many additional evening and weekend hours to complete the increased scope of work within the originally allotted 60-day period.

A Change Order summary is attached as Exhibit "G" which provides the amount of all change orders for the construction project at \$3,433,189.31 (3.9% of the original bid). The amount of change orders directly related to Phase 2 Expansion and Flood Protection Improvements is \$2,210,186.99 (2.5% of the original bid). Change orders for other projects, such as the Biosolids project, account for the difference.

FISCAL IMPACTS:

The MWRP Phase 2 Expansion Project 30214 (1706) is included in the FY 2012-13 Capital Budget. The existing budgets and Expenditure Authorizations are sufficient to fund CCO No. 77.

ENVIRONMENTAL COMPLIANCE:

The Michelson Water Recycling Plant Phase 2 Expansion and Flood Protection Improvements, Projects 20214, 20542, 30214, and 30542 are 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.

Action Calendar: Michelson Water Recycling Plant Phase 2 Expansion Contract Change Order
No. 77
August 27, 2012
Page 3

COMMITTEE STATUS:

This item was reviewed at the Engineering and Operations Committee on August 14, 2012.

RECOMMENDATION:

THAT THE BOARD APPROVE CONTRACT CHANGE ORDER NO. 77, IN THE AMOUNT OF \$151,336.95, FOR REHABILITATIVE REPAIRS TO THE CHLORINE CONTACT TANKS WITH J. R. FILANC CONSTRUCTION CO. FOR THE MWRP PHASE 2 EXPANSION, PROJECT 30214 (1706).

LIST OF EXHIBITS:

- Exhibit "A" – Location Map
- Exhibit "B" – Examples of Sealant Failure
- Exhibit "C" – Location of Stainless Steel Screens and Slide Gates
- Exhibit "D" – Location of Steel Piping to be Removed
- Exhibit "E" – Location of Spalls and Cracks near Safety Railing
- Exhibit "F" – Contract Change Order No. 77
- Exhibit "G" – Contract Change Order Summary



Overview of MWRP Phase 2 Expansion



1. North and South Influent Interceptors
2. Headworks
3. Primary Sedimentation
4. Primary Effluent Pump Station
5. Flow Equalization Basins
6. Aeration Blowers
7. Membrane Bioreactors (MBR)
8. High Rate Clarifier (HRC)
9. Spent Backwash
10. Ultraviolet (UV) Disinfection and Chlorine Contact Modifications
11. Chemical Systems
12. Odor Control
13. Electrical Buildings
14. Sodium Hypochlorite System
15. Flood Protection Improvements

Exhibit "B"

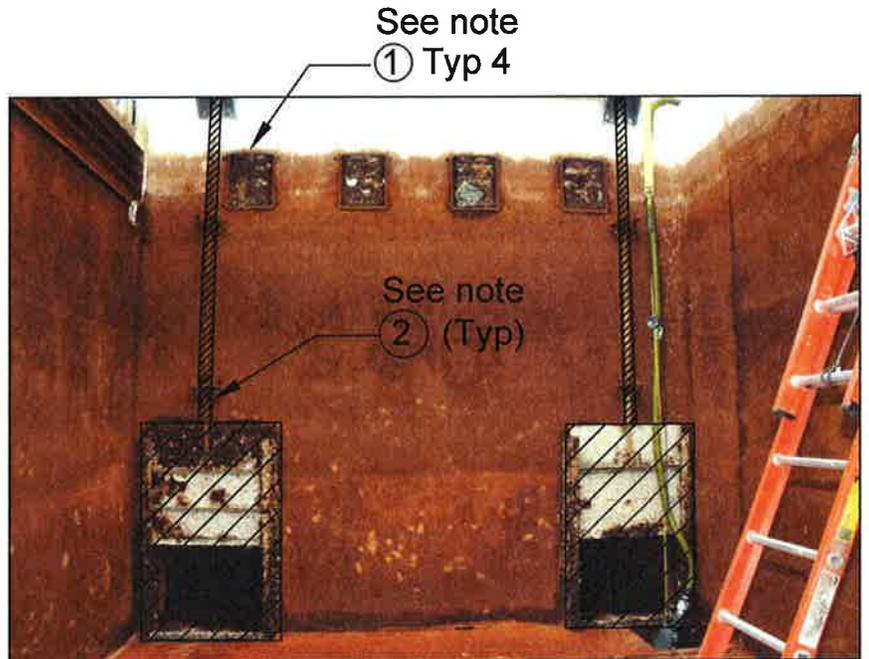
View of a wall at an expansion joint, illustrating the failure of the joint sealant and exposed backer rod. Note exposed aggregate in the joint and on adjacent surfaces.



EXHIBIT "C"

Notes:

- ① Remove, clean, and re-install stainless steel screens
- ② Remove and dispose slide gates. Patch bolt holes.



Notes:

- ③ Remove and dispose 3' X 3' slide gate. Install a new 3' X 3' stainless steel 316 slide gate.

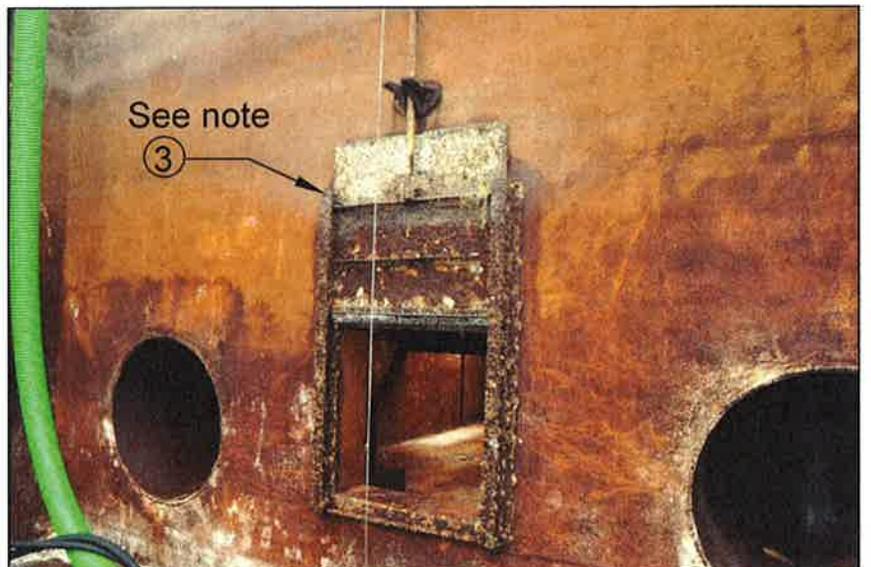


EXHIBIT "C"

Notes:

- ④ Remove J-Tube and support. Install bulkhead



See note

⑤ Typ 4

Notes:

- ⑤ Demolish 4 U-tubes, and coat remaining steel sleeves.



EXHIBIT "D"

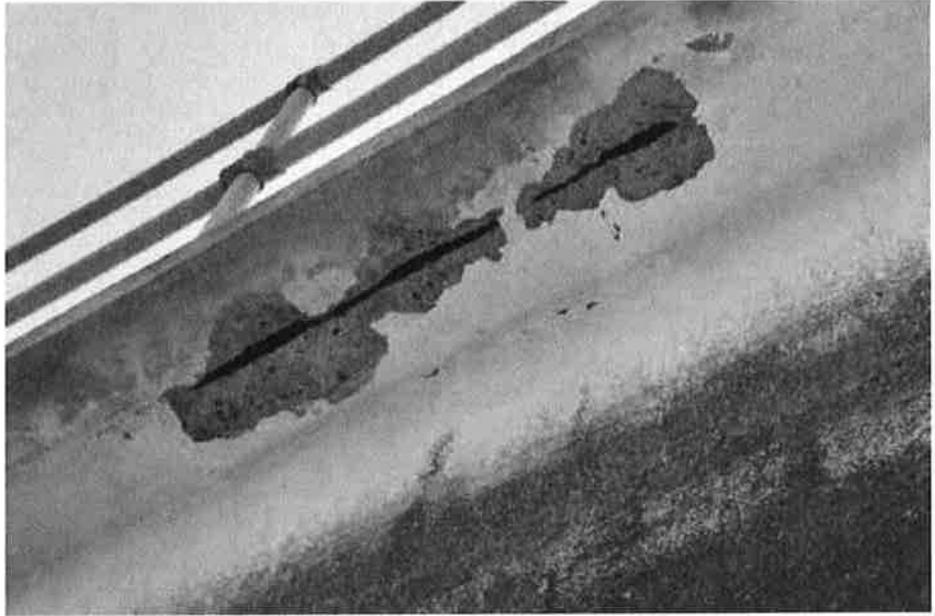
Notes:

- ④ Remove J-Tube and support. Install bulkhead



EXHIBIT "E"

View of the safety railing, illustrating several spalls with exposed reinforcing steel present.



View of the safety railing, illustrating a large crack present below a handrail support.

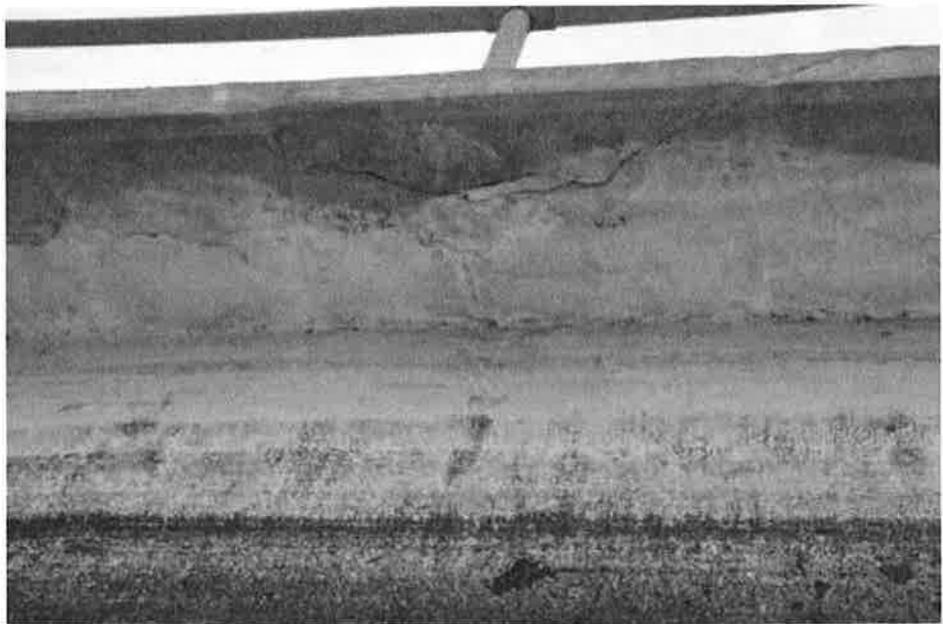


EXHIBIT "G"

MWRP Phase 2 Expansion and Flood Protection Improvements PR 20214 (1599), 20542 (1706), 30214 (1150), and 30542 (1118) Construction Summary

Contractor: J R Filanc Construction
Design Engineer: HDR

			Contract Amount						Contract Days				Original Completion Date:
			Original Contract Amount: \$ 87,479,458.00						Original Days: 1,094				8/1/2012
Change Order	Description	Category	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
1	Approved by Director of Engineering and Construction Approved on November 19, 2009			\$195.40	\$0.00	\$195.40	0.0%	\$87,479,645.40	0	0	0	1,094	8/1/2012
1.1	Partnering Workshop - IRWD and the Contractor agreed to split equally the cost of partnering. The initial partnering workshop was held on September 3, 2009. This change request represents the Contractor's portion of the cost of that initial workshop. It is a credit to IRWD.	A	(\$6,561.60)						0				
1.2	Installation of Bollards - The Contractor installed bollards around the IRWD MWRP Phase 2 Field Office Trailer and K-rails around the interim sodium hypochlorite System to protect from traffic	A	\$ 3,655.72						0				
1.3	Relocation of 4-inch Natural Gas Pipeline	B	\$ 3,101.28						0				
2	Approved by Director of Engineering and Construction Approved on December 3, 2009			\$16,018.04	\$195.40	\$16,213.44	0.0%	\$87,495,663.44	0	0	0	1,094	8/1/2012
2.1	Previously Approved Change Request #4 - Tree Removal and Grinding at Flood Improvements and Duck Club	A	\$ 6,696.00						0				
2.2	Previously Approved NOPE #1 - Damofish Abandoned Building	D	\$ 7,641.87						0				
2.3	Repair of 10-inch PVC Groundwater Line at the New Headworks Area	B	\$ 1,680.17						0				
3	Approved by Director of Engineering and Construction Approved on December 18, 2009			\$0.00	\$16,213.44	\$16,213.44	0.0%	\$87,495,663.44	0	0	0	1,094	8/1/2012
3.1	Construct Temporary Access Road to Staging Area 3	A	\$						0				
4	Approved by Board of Directors Approved on January 25, 2010			\$143,950.10	\$16,213.44	\$160,163.54	0.2%	\$87,639,613.54	0	0	0	1,094	8/1/2012
4.1	Upsize Area 600 Aeration Blower from 350 to 500 hp	C	\$ 66,353.37						0				
4.2		C	\$ 41,529.75						0				
4.3	Upsizing Soft Starters for Area 700 Blowers from 350 to 450 hp	A	\$ 36,064.78						0				
5	Approved by Director of Engineering and Construction Approved on December 29, 2009			\$5,081.52	\$160,163.54	\$165,245.06	0.2%	\$87,644,695.06	0	0	0	1,094	8/1/2012
5.1	Relocation of K-rail to Allow Construction Equipment access for pond maintenance (PR 10942)	D	\$ 5,081.52						0				
6	Approved by Engineering & Operations Comm Approved on January 19, 2010			\$77,478.00	\$165,245.06	\$242,723.06	0.3%	\$87,722,173.06	0	0	0	1,094	8/1/2012
6.1	WAS and Skimming Pumps Replacement (PR 20779)	D	\$ 77,478.00						0				

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MWRP Phase 2 Expansion and Flood Protection Improvements
 PR 20214 (1599), 20542 (1706), 30214 (1150), and 30542 (1118)
 Construction Summary

Contractor: J R Filanc Construction
 Design Engineer: HDR

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			Contract Amount						Contract Days				Original Completion Date:
			Original Contract Amount: \$ 87,479,450.00						Original Days: 1,894				8/1/2012
Change Order	Description	Category	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
7	Approved by AGM Approved on February 9, 2010			\$10,214.87	\$242,723.06	\$252,937.93	0.3%	\$87,732,387.93	0	0	0	1,094	8/1/2012
7.1	Relocation and Repair of Unknown Utilities. The Contractor relocated a 1-inch air line and repaired a 2-inch chlorine line, both of which were not shown on the Plans (CCR #10)	B	\$ 2,588.36						0				
7.2	Removal and Disposal of Unknown Electrical Ductbanks at future Sodium Hypochlorite Feed Facility. (CCR #12)	B	\$ 2,216.31						0				
7.3	Non-compensable Weather-Related Delay	B	\$ -						0				
7.4	Non-compensable Time Extension Due to Change Order No. 4	C	\$ -						0				
7.5	Addition of Manways on Sodium Hypochlorite Tanks (CCR #23)	A	\$ 5,410.20						0				
8	Approved by Board of Directors Approved on February 22, 2010			-\$1,135,820.75	\$252,937.93	-\$882,882.82	-1.0%	\$86,596,567.18	0	0	0	1,094	8/1/2012
8.1	Delete Bid Item A.28 - System Integration	A	\$ (1,624,460.00)						0				
8.2	System Integration Coordination and SCADA Hardware Procurement	A	\$ 488,639.25						0				
9	Approved by AGM Approved on March 18, 2010			-\$36,064.78	-\$882,882.82	-\$918,947.60	-1.1%	\$86,560,502.40	0	0	0	1,094	8/1/2012
9.1	Deletion of Change Order 4, Line Item 3 - Installation of Infrared Windows	A	\$ (36,064.78)						0				
10	Approved by AGM Approved on March 23, 2010			\$6,563.45	-\$918,947.60	-\$911,984.15	-1.0%	\$86,567,465.85	0	0	0	1,094	8/1/2012
10.1	Removal of 18-inch pipe and installation of 24-inch blind flange at Sodium Hypochlorite System excavation (CR #24)	B	\$2,708.66						0				
10.2	Addition of 24-inch side manway for Manganese Hydroxide tanks (CR #27)	A	\$5,667.83						0				
10.3	Relocation of 54" Primary Effluent Line (CR #29)	A	(\$15,928.00)						0				
10.4	Change in PVC C900/C905 Manufacturer (CR #30)	A	\$14,514.96						0				

MWRP Phase 2 Expansion and Flood Protection Improvements
 PR 20214 (1599), 20542 (1706), 30214 (1150), and 30542 (1118)
 Construction Summary

Contractor: J R Filanc Construction
 Design Engineer: HDR

			Contract Amount						Contract Days				Original Completion Date:
			Original Contract Amount: \$ 87,479,450.00						Original Days: 1,094				8/1/2012
Change Order	Description	Category	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
11	Approved by Director of Engineering and Construction Approved on April 26, 2010			\$21,033.73	-\$911,984.15	-\$890,950.42	-1.0%	\$86,588,499.58	0	0	0	1,094	8/1/2012
11.1	Abandoned 24-inch line at high rate clarifier location (CR #026)	B	\$15,782.97						0				
11.2	Exploratory Excavation for Duct Bank at MPS-2 electrical building	B	\$3,035.98						0				
11.3	Provide chain operators and chain, and grease fittings for plug valves for the WAS/Skimming Pumps Replacement Project (PR 20779) (CR #036)	D	\$2,214.78						0				
12	Approved by Director of Engineering and Construction Approved on April 28, 2010			\$17,121.47	-\$890,950.42	-\$873,828.95	-1.0%	\$86,605,621.05	0	0	0	1,094	8/1/2012
12.1	Relocation of Existing 10-inch and 6-inch GW line (CR #014)	B	\$17,121.47						0				
13	Approved by AGM Approved on April 28, 2010			\$34,095.00	-\$873,828.95	-\$839,733.95	-1.0%	\$86,639,716.05	0	0	0	1,094	8/1/2012
13.1	Modifications in Checkered Aluminum Plates at the Headworks Area (CR 037)	C	\$34,095.00						0				
14	Approved by Director of Engineering and Construction Approved on May 4, 2010			\$16,655.10	-\$839,733.95	-\$823,078.85	-0.9%	\$86,656,371.15	0	0	0	1,094	8/1/2012
14.1	Electrical Substation Work (Two additional 5-inch Conduits and Connection btwn IRWD and SCE) (CR 023)	A	\$16,655.10						0				
15	Approved by AGM Approved on May 21, 2010			-\$49,007.95	-\$823,078.85	-\$872,086.80	-1.0%	\$86,607,363.20	0	0	0	1,094	8/1/2012
15.1	Credit for Not Relocating the 18-inch diameter drain line at HRC (CR #019)	A	(\$42,262.00)						0				
15.2	Credit for Slab Penetration Modifications, Detail P17 (RFI 0102) (CR #032)	A	(\$6,745.95)						0				
16	Approved by Director of Engineering and Construction Approved on May 25, 2010			\$22,358.42	-\$872,086.80	-\$849,728.38	-1.0%	\$86,629,721.62	0	0	0	1,094	8/1/2012
16.1	Abandonment of 6" Pipes at MBR Screen Area (CR 042)	B	\$2,536.36						0				
16.2	Addition of Three Transformers at UV Disinfection Facility (RFI 0149)	C	\$18,633.63						0				
16.3	Remove encasement on existing utilities to allow construction of future Primary Sedimentation Tanks (CR 051)	B	\$1,188.43						0				

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**MWRP Phase 2 Expansion and Flood Protection Improvements
PR 20214 (1599), 20542 (1706), 30214 (1150), and 30542 (1118)
Construction Summary**

Contractor: J R Filanc Construction
Design Engineer: HDR

Change Order	Description	Category	Contract Amount						Contract Days				Original Completion Date:
			Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	8/1/2012
													Original Contract Amount: \$ 87,479,450.00
17	Approved by Engineering & Operations Committee Approved on June 15, 2010 17.1 Demolition of Old Clarifier Bottoms (CR 013)	B	(\$55,420.00)	-\$55,420.00	-\$849,728.38	-\$905,148.38	-1.0%	\$86,574,301.62	0	0	0	1,094	8/1/2012
18	Approved by Director of Engineering and Construction Approved on July 28, 2010 18.1 Water Control Gate Revisions (CR #034) 18.2 Repair of Existing Vault west of High Rate Clarifier (CR #057) 18.3 Additional Demolition at Abandoned Aerobic Digester Area (CR #063)	C B B	\$17,923.23 \$1,451.75 \$5,507.26	\$24,882.24	-\$905,148.38	-\$880,266.14	-1.0%	\$86,599,183.86	0	0	0	1,094	8/1/2012
19	Approved by Director of Engineering and Construction Approved on July 30, 2010 19.1 Platform modifications at Sodium Hypochlorite Feed System (CR 025) 19.2 Pothole of existing 36-inch filter influent pipe (CR 043) 19.3 Delete 6" knife gate valve and add 6" plug valve at Primary Sedimentation (CR 046) 19.4 Repair of reclaimed water leak near old control room (CR 054) 19.5 MBR fine screen cover plates modifications (CR 064)	A A A B B	\$2,478.67 \$4,503.99 \$662.31 \$1,173.97 \$7,240.64	\$16,059.68	-\$880,266.14	-\$864,207.46	-1.0%	\$86,615,242.54	0	0	0	1,094	8/1/2012
20	Approved by Assistant GM Approved on August 26, 2010 20.1 Area 600 Blower Discharge Modifications (CR 050)	A	\$34,622.27	\$34,622.27	-\$864,207.46	-\$829,585.19	-0.9%	\$86,649,864.81	0	0	0	1,094	8/1/2012
21	Approved from Board of Directors Approved on August 23, 2010 21.1 Valve Vaults Modifications (CR 020)	A	\$277,384.97	\$277,384.97	-\$829,585.19	-\$552,200.22	-0.6%	\$86,927,249.78	0	0	0	1,094	8/1/2012
22	Approved by Director of Engineering and Construction Approved on August 26, 2010 22.1 Site Cleanup Due to Existing Filter Overflow (CR 065) 22.2 Hollow shaft motor modifications to Vertical Turbine & Vertical Propeller Pumps (CR 069)	B A	\$4,271.51 \$18,845.55	\$23,117.06	-\$552,200.22	-\$529,083.16	-0.6%	\$86,950,366.84	0	0	0	1,094	8/1/2012
23	Approved by Director of Engineering and Construction Approved on September 9, 2010 23.1 MBR Anoxic Well Modifications (CR 061) 23.2 Repair Existing 6-inch GW near SCE Station (CR 067) 23.3 Unforeseen Conditions at SCE Conduit Installation (CR 075)	C B B	\$6,399.86 \$3,449.83 \$13,719.91	\$23,569.60	-\$529,083.16	-\$505,513.56	-0.6%	\$86,973,936.44	0	0	0	1,094	8/1/2012

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MWRP Phase 2 Expansion and Flood Protection Improvements
 PR 20214 (1599), 20542 (1706), 30214 (1150), and 30542 (1119)
 Construction Summary

Contractor: J R Filanc Construction
 Design Engineer: HDR

			Contract Amount						Contract Days				Original Completion Date:
			Original Contract Amount: \$ 87,479,450.00						Original Days: 1,094				8/1/2012
Change Order	Description	Category	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
24	Approved by Engineering and Operations Committee Approved on September 21, 2010			-\$52,172.00	-\$505,513.56	-\$557,685.56	-0.6%	\$86,921,764.44	0	0	0	1,094	8/1/2012
24.1	UVE Piping Modifications at Chlorine Contact Tanks (CR 056)	A	(\$32,172.00)					0	0	0	0	1,094	8/1/2012
25	Approved by Board of Directors Approved on September 27, 2010			\$186,651.45	-\$557,685.56	-\$371,034.11	-0.4%	\$87,108,415.89	0	0	0	1,094	8/1/2012
25.1	Modifications to Campus Drive Entrance (CR 022)	A	\$186,651.45					0	0	0	0	1,094	8/1/2012
26	Approved by Director of Engineering and Construction Approved on October 20, 2010			\$19,392.74	-\$371,034.11	-\$351,641.37	-0.4%	\$87,127,808.63	0	0	0	1,094	8/1/2012
26.1	Change of Strut Material from FRP to Stainless Steel 316/Install CAT5 Cable from PLC 1600 to PLC 9 (CR 074) [PR 20214, 30214]	A	\$1,539.18					0	0	0	0	1,094	8/1/2012
26.2	Existing Primary Sludge Pump Room Demolition and Modifications (CR 076) [PR 20214, 30214]	C	\$3,909.94					0	0	0	0	1,094	8/1/2012
26.3	Fence Repair at SCE Substation (CR 078) [PR 20214, 30214]	B	\$1,957.62					0	0	0	0	1,094	8/1/2012
26.4	SHC Electrical and Controls and Milestone Revisions (CR 079) [PR 20214, 30214]	B	\$324.07					0	0	0	0	1,094	8/1/2012
26.5	Change to more Energy Efficient Air Conditioning Units (Five Total) (Submittal 15604-001) (CR 081) [PR 20214, 30214]	A	\$9,101.41					0	0	0	0	1,094	8/1/2012
26.6	Grouting of the Sodium Hypochlorite Tanks at their Permanent Site (CR 084) [PR 20214, 30214]	A	\$2,560.52					0	0	0	0	1,094	8/1/2012
27	Approved by Engineering & Operations Committee Approved on November 4, 2010			-\$58,157.82	-\$351,641.37	-\$409,799.19	-0.5%	\$87,069,650.81	0	0	0	1,094	8/1/2012
27.1	Primary Sedimentation Tanks Flo-Clip Baffles Value Engineering (CR 080)	A	(\$58,157.82)					0	0	0	0	1,094	8/1/2012
28	Approved by GM Approved on November 24, 2010			\$39,525.24	-\$409,799.19	-\$370,273.95	-0.4%	\$87,109,176.05	0	0	0	1,094	8/1/2012
28.1	Ducts for Future Phase 3 MBR (RFI 44) (RFI 016)	A	\$32,021.80					0	0	0	0	1,094	8/1/2012
28.2	Sodium Hypochlorite LCP Modifications (CR 071)	A	\$7,503.44					0	0	0	0	1,094	8/1/2012
29	Approved by Director of Engineering & Construction Approved on December 22, 2010			\$23,964.61	-\$370,273.95	-\$346,309.34	-0.4%	\$87,133,140.66	0	0	0	1,094	8/1/2012
29.1	MBR Aeration Piping Access Platforms (CR-066)	A	\$14,074.73					0	0	0	0	1,094	8/1/2012
29.2	Electrical Conduit Installation near MWRP Phase 2 Trailers (Unforeseen Conditions) (CR 077)	B	\$9,889.88					0	0	0	0	1,094	8/1/2012

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**MWRP Phase 2 Expansion and Flood Protection Improvements
PR 20214 (1599), 20542 (1706), 30214 (1150), and 30542 (1118)
Construction Summary**

Contractor: J.R. Filanc Construction
Design Engineer: HDR

			Contract Amount						Contract Days				Original Completion Date:
			Original Contract Amount: \$ 87,479,450.00						Original Days: 1,094				8/1/2012
Change Order	Description	Category	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
30	Approved by Assistant GM Approved on December 22, 2010			\$48,684.10	-\$346,309.34	-\$297,625.24	-0.3%	\$87,181,824.76	0	0	0	1,094	8/1/2012
30.1	Pipe Support (20-PE and 18-ML) Modifications per Submittal 15090-003 (CR 073)	C	\$20,830.97						0				
30.2	Material Change to SS 316 for Dry Type Transformer Submittal 16460-001 and Panelboard Submittal 16441-002 (CR 093)	A	\$27,803.13						0				
31	Approved by Engineering & Operations Committee Approved on January 18, 2011			\$61,136.74	-\$297,625.24	-\$236,488.50	-0.3%	\$87,242,981.50	0	0	0	1,094	8/1/2012
31.1	Modifications at Campus Drive Access (CR 085)	A	\$61,136.74						0				
32	Approved by Director of Engineering & Construction Approved on January 31, 2011			\$24,303.15	-\$236,488.50	-\$212,185.35	-0.2%	\$87,267,264.65	0	0	0	1,094	8/1/2012
32.1	Delete Grout Fillet and Add Embeds at Headworks Grit Chambers (CR 090)	A	\$8,156.20						0				
32.2	LCPs for Vertical Recirculating Chopper Pumps and Sump Pumps (CR 097)	C	\$15,000.00						0				
32.3	Install Additional "Pipe Below Ground" Warning Tape (CR-099)	A	\$1,146.95						0				
33	Approved by Board of Directors Approved on February 28, 2011			\$282,840.15	-\$212,185.35	\$70,654.80	0.1%	\$87,550,104.80	0	0	0	1,094	8/1/2012
33.1	Revised chlorine feed to filters (CR-038)	C	-\$3,510.68						0				
33.2	PEPS meter vaults and bypass piping revisions (CR-039)	C	-\$165,696.50						0				
33.3	MPS-2 Pump Discharge Pipe Modifications (NOPE #003/CR-040)	D	\$54,005.58						0				
33.4	Modifications to MPS-2 Building Due to Unknown Duct Banks (RFP 160) (CR-049)	B	\$16,500.00						0				
33.5	WAS/Foam Pump Revisions (CR-053)	C	-\$5,696.40						0				
33.6	Floodwall Revisions per County of Orange and FEMA comments (CR-083)	A	\$350,683.85						0				
33.7	Modifications to Grating Supports at PST Splitter Box (CR-102)	C	\$5,266.73						0				
33.8	Change to NEMA 3R SS 316 Cabinets and Additional Taps for UV Disinfection Transformers Added by CR 047/CO 16 (CR-104)	A	\$12,003.29						0				
33.9	Miscellaneous Time & Material Items								0				
	Demo Oversized Footing/Rebar on Existing Retaining Wall behind Paint Shop (CR-100)	B	\$5,391.41						0				
	Removal of Unknown Concrete at the North Interceptor (CR-107)	B	\$2,917.38						0				
	Thrust block on storage line at HRC vault (CR-108)	B	\$3,638.22						0				
	Removal of encased pipe for pile driving at MBR (CR-109)	B	\$2,756.79						0				
	Repair pile damaged when performing CR-109 (CR-110)	B	\$1,320.34						0				
	Install hydrophilic waterstop at PST launders (CR-113)	B	\$3,258.14						0				

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**MWRP Phase 2 Expansion and Flood Protection Improvements
PR 20214 (1599), 20542 (1706), 30214 (1150), and 30542 (1118)
Construction Summary**

Contractor: J.R. Filanc Construction
Design Engineer: HDR

			Contract Amount						Contract Days				Original Completion Date:
			Original Contract Amount: \$ 7,479,450.00						Original Days: 1,094				8/1/2012
Change Order	Description	Category	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
34	Approved by Director of Engineering & Construction Approved on March 23, 2011			\$21,844.36	\$70,654.80	\$92,499.36	0.1%	\$87,571,949.36	0	0	0	1,094	8/1/2012
34.1	Groundwater Well Modifications (CR-041) [PR 20214, 30214]	A	\$2,338.20						0				
34.2	Bypass for Shutdown at HRC Vault (CR-106) [PR 20214, 30214]	A	\$11,200.90						0				
34.3	Removal and Disposal of Abandoned 8-inch Reclaimed Water Line in the area of North Influent Interceptor Junction Structure (CR-111) [PR 20214, 30214]	B	\$3,039.17						0				
34.4	Additional Pipe Supports for 20" PE at MBR (CR-135) [PR 20214, 30214]	B	\$2,811.22						0				
34.5	Repair existing 6-in Reclaimed Water Line near Headworks (CR-138) [PR 20214, 30214]	C	\$2,455.07						0				
35	Approved by Asst GM Approved on April 18, 2011			\$43,741.00	\$92,499.36	\$136,240.36	0.2%	\$87,615,690.36	0	0	0	1,094	8/1/2012
35.1	Area 600 Blower Discharge Modifications (CR-055) [PR 20214, 30214]	A	\$28,785.00						0				
35.2	Area 600 Blower Structural Support Modifications (CR-077) [PR 20214, 30214]	B	\$14,956.00						0				
36	Approved by Director of Engineering and Construction Approved on May 16, 2011			\$23,514.47	\$136,240.36	\$159,755.33	0.2%	\$87,639,205.33	0	0	0	1,094	8/1/2012
36.1	Area 300 Primary Sedimentation and Area 700 Membrane Bioreactors FRP Launder Modifications (CR-087) [PR 20214, 30214]	A	\$4,757.27						0				
36.2	Area 700 Membrane Bioreactors GE Piping Modifications (CR-136) [PR 20214, 30214]	B	\$16,933.64						0				
36.3	Addition of speed feedback on Various variable speed pumps (Chemical Systems) (CR-116) [PR 20214, 30214]	A	\$1,824.06						0				
37	Approved by Assistant GM Approved on May 30, 2011			\$46,369.50	\$159,755.33	\$206,124.83	0.2%	\$87,685,574.83	0	0	0	1,094	8/1/2012
37.1	Replacement of Existing Area 600 Discharge Pipe Coupling (CR-117) [PR 20214, 30214]	A	\$14,011.83						0				
37.2	Modifications to Primary Sedimentation Tank Embeds and Cover Plates (CR-125) [PR 20214, 30214]	A	\$6,751.65						0				
37.3	Increase of Bid Item A.8 - Additional Pre-drilling of Piles (CR-098) - 3.658 LF @ \$7/LF [PR 20214, 30214]	B	\$25,606.00						0				
38	Approved by Director of Engineering and Construction Approved on May 30, 2011			\$24,692.00	\$206,124.83	\$230,816.83	0.3%	\$87,710,366.83	0	0	0	1,094	8/1/2012
38.1	Two-Sided (Split Faced) Masonry for Flood Protection Improvements (CR-088) [PR 20542, 30542]	C	\$19,704.00						0				
38.2	Architectural Modifications of MBR Building per Revised Drawing A-702 (CR-149) [PR 20214, 30214]	C	\$4,988.00						0				

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**MWRP Phase 2 Expansion and Flood Protection Improvements
PR 20214 (1599), 20542 (1706), 30214 (1150), and 30542 (1118)
Construction Summary**

Contractor: J R Filanc Construction
Design Engineer: HDR

Change Order	Description	Category	Contract Amount						Contract Days				Original Completion Date:
			Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
39	Approved by Engineering & Operations Committee Approved on June 21, 2011 39.1 Additional Architectural Modifications at High Rate Clarifier (CR-082) (PR 20214, 30214)	A	\$60,515.80	\$60,515.80	\$230,816.83	\$291,332.63	0.3%	\$87,770,782.63	0	0	0	1,094	8/1/2012
40	Approved by Director of Engineering and Construction Approved on June 23, 2011 40.1 Double Containment Piping Modification for Sodium Hypochlorite System (CR-095) (PR 20214, 30214/Oracle 1599, 40.2 Change of Enclosure from NEMA 4 to NEMA 4X SS for Chopper Pumps in CR-097 (CR-133) (PR 20214, 40.3 Sodium Hypochlorite Tank Pad at PST Odor Control (CR-146) (PR 20214, 30214/Oracle 1599, 1706)	A A B	\$16,157.16 \$1,347.00 \$5,709.89	\$23,214.05	\$291,332.63	\$314,546.68	0.4%	\$87,795,996.68	0	0	0	1,094	8/1/2012
41	Approved Assistant GM Approved on June 24, 2011 41.1 MPS-2 replacement of existing valves (NOPE #4) (CR-126) (PR 20214, 30214/Oracle 1599, 1706) 41.2 Graybar Modifications per RFI 372 (CR-144) (PR 20214, 30214/Oracle 1599, 1706) 41.3 Steel Joists Modifications Due to Additional Load Requirements per Submittal 05221-001 (CR-153) (PR 20214, 30214/Oracle	A A B	\$35,068.26 \$3,429.00 \$9,508.00	\$48,005.26	\$314,546.68	\$362,551.94	0.4%	\$87,842,001.94	0	0	0	1,094	8/1/2012
42	Approved by Engineering & Operations Committee Approved on July 13, 2011 42.1 MBR Aeration and Penetrate Piping Modifications (CR-048) (PR 20214, 30214/Oracle 1599, 1706)	B	\$59,150.74	\$59,150.74	\$362,551.94	\$421,702.68	0.5%	\$87,901,152.68	0	0	0	1,094	8/1/2012
43	Approved by Board of Directors Approved on July 25, 2011 43.1 Pipelines and Utilities for Future Biosolids (CR-017) (PR 20847/Oracle 1617) 43.2 Biosolids Sewer Force Main (CR-045) (PR 20847/Oracle 1617) 43.3 Geotechnical Investigation at Staging Area 2 for Biosolids Project (CR 137) (PR 20847/Oracle 1617)	D D D	\$503,272.17 \$626,976.14 \$2,035.40	\$1,132,283.71	\$421,702.68	\$1,553,986.39	1.8%	\$89,033,436.39	120	0	120	1,214	11/29/2012
44	Approved on Director of Engineering & Construction Approved on August 18, 2011 44.1 Chemical Systems Pump Pad Modifications (CR-105) (PR 20214,30214/Oracle 1599,1706) 44.2 Installation of 6" Gate Valve and Change of Pipe Size on PW near SH Junction (CR-140) (PR 20214,30214/Oracle 44.3 PLC-300 additional I/O to accommodate VFD change of Primary Sludge Pumps (PR 20214,30214/Oracle 1599,1706) 44.4 Non-compensable time extension of Milestone 5 - Floodwall Installation delay due to FEMA review and regulatory compliance	A A A B	\$1,833.71 \$9,141.00 \$13,999.77 \$0.00	\$24,974.48	\$1,553,986.39	\$1,578,960.87	1.8%	\$89,058,410.87	0	120	120	1,214	11/29/2012

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**MWRP Phase 2 Expansion and Flood Protection Improvements
PR 20214 (1599), 20542 (1706), 30214 (1150), and 30542 (1118)
Construction Summary**

Contractor: J R Filanc Construction
Design Engineer: HDR

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			Contract Amount						Contract Days				Original Completion Date:
			Original Contract Amount: \$ 87,479,450.00						Original Days: 1,094				8/1/2012
Change Order	Description	Category	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
45	Approved by Director of Engineering & Construction Approved on August 29, 2011			\$24,935.87	\$1,578,960.87	\$1,603,896.74	1.8%	\$89,083,346.74	0	0	0	1,214	11/29/2012
45.1	Deletion of Monomil and Door Modifications at Headworks (CR-103) (PR 20214,30214/Oracle 1599,1706)	A	\$3,570.03						0				
45.2	Hollow Metal Door Modifications (CR-156) (PR 20214,30214/Oracle 1599,1706)	A	\$7,396.38						0				
45.3	Miscellaneous T&M (CR-166) (PR 20214,30214/Oracle 1599,1706)	B	\$13,969.46						0				
46	Approved by Board of Directors Approved on September 26, 2011			\$476,789.37	\$1,603,896.74	\$2,080,686.11	2.4%	\$89,560,136.11	0	120	120	1,214	11/29/2012
46.1	Replacement of Sand Canyon Zone A and Associated Piping, Valves, and Appurtenances (CR-130) (PR 30038/Oracle 1643)	D	\$455,216.07						0				
46.2	As Needed Potholing Related to Strainer Replacement and Pipe Installation (CR-130) (PR 30038/Oracle 1643)	D	\$21,573.30						0				
47	Approved by Director of Engineering & Construction Approved on October 13, 2011			\$24,215.90	\$2,080,686.11	\$2,104,902.01	2.4%	\$89,584,352.01	0	120	120	1,214	11/29/2012
47.1	Installation of Davits at PST, MBR, SBW Walkway, and HRC (CR-134) (PR 20214 (1599)/30214 (Oracle 1706))	A	\$6,153.02						0				
47.2	Miscellaneous T&M Work (CR-183) (PR 20214 (1599)/30214 (Oracle 1706))	B	\$18,062.88						0				
48	Approved by Director of Engineering & Construction Approved on October 18, 2011			\$24,860.93	\$2,104,902.01	\$2,129,762.94	2.4%	\$89,609,212.94	0	120	120	1,214	11/29/2012
48.1	Primary splitter box low pressure air pipe material and restraints (CR-162)/(PR 20214 (1599)/30214 (Oracle 1706))	C	\$6,583.45						0				
48.2	FRP Launder Modifications at MBR RAS Box (CR-168)/(PR 20214 (1599)/30214 (Oracle 1706))	C	\$4,318.00						0				
48.3	Concrete with PVC behind Auto Shop (CR-112)/(PR 20214 (1599)/30214 (Oracle 1706))	B	\$1,262.67						0				
48.4	Door Hardware Modifications per RFI-0339 (CR-139)/(PR 20214 (1599)/30214 (Oracle 1706))	C	\$7,428.82						0				
48.5	SBW Pumps Low Level Circuit modifications (CR-178)/(PR 20214 (1599)/30214 (Oracle 1706))	C	\$2,261.42						0				
48.6	Site Lighting Modifications (CR-068)/(PR 20214 (1599)/30214 (Oracle 1706))	C	\$3,006.57						0				

**MWRP Phase 2 Expansion and Flood Protection Improvements
PR 20214 (1599), 20542 (1706), 30214 (1150), and 30542 (1118)
Construction Summary**

Contractor: J R Filanc Construction
Design Engineer: HDR

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		Contract Amount							Contract Days				Original Completion Date:
		Original Contract Amount: \$ 87,479,450.00							Original Days: 1,094				8/1/2012
Change Order	Description	Category	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum Total C.O. days	Revised Total Contract Days	Revised Completion Date
49	Approved from Board of Directors Approved on October 24, 2011 49.1 Biosolids Indicator Piles (CR-175)/PR 20847 (1617)	D		\$318,886.24	\$2,129,762.94	\$2,448,649.18	2.8%	\$89,928,099.18	0	120	120	1,214	11/29/2012
50	Approved by Director of Engineering & Construction Approved on November 21, 2011 50.1 Odor scrubber cleaning at Primary Sedimentation Tanks (CR-158) (PR 20214,30214/Oracle 1599,1706) 50.2 Existing Ductbank Modifications (CR-185) (PR 20214,30214/Oracle 1599,1706) 50.3 Additional Concrete Fillets at High Rate Clarifier (CR-188) (PR 20214,30214/Oracle 1599,1706)	A		\$24,957.84	\$2,448,649.18	\$2,473,607.02	2.8%	\$89,953,057.02	0	120	120	1,214	11/29/2012
51	Approved by Director of Engineering & Construction Approved on November 22, 2011 51.1 Filter Pump Station-2(FPS-2) Potable Water Line Addition (CR-172) (PR 20214 (1599)/30214 (Oracle 1706)) 51.2 Pothole 8 Inch Drain Line from High Rate Clarifier to Manhole #3 (CR-197) (PR 20214 (1599)/30214 (Oracle 1706))	A		\$24,342.17	\$2,473,607.02	\$2,497,949.19	2.9%	\$89,977,399.19	0	120	120	1,214	11/29/2012
52	Approved by Board of Directors Approved on December 12, 2011 52.1 36" Stormwater Pipeline for Biosolids (CR-174) (PR 20847)	D		\$284,442.00	\$2,497,949.19	\$2,782,391.19	3.2%	\$90,261,841.19	0	120	120	1,214	11/29/2012
53	Approved by Director of Engineering & Construction Approved on December 8, 2011 53.1 Modifications to MBR Pump Room Drains and Valve Vaults (CR-095) (PR 20214/30214 (1599/1706)) 53.2 Central Electrical Building Masonry Veneer Modifications (CR-159) (PR 20214/30214 (1599/1706)) 53.3 Sodium Hydroxide Tank Pad Modifications (CR-161) 53.4 Addition of Gutter and Downspout at Membrane Bioreactors Structure (CR-164) (PR 20214/30214 (1599/1706))	C		\$24,885.30	\$2,782,391.19	\$2,807,276.49	3.2%	\$90,286,726.49	0	120	120	1,214	11/29/2012
54	Approved by Director of Engineering & Construction Approved on December 9, 2011 54.1 Grit Pump and Mixer Power Feed Modifications (CR-115) (PR 20214,30214/Oracle 1599,1706) 54.2 8-inch Plant Drain Residuals to Headworks Piping Modifications at High Rate Clarifier (CR-171) (PR 20214,30214/Oracle 1599,1706) 54.3 Vault Drain Line to PEPS (CR-176) (PR 20214,30214/Oracle 1599,1706)	A		\$24,569.34	\$2,807,276.49	\$2,831,845.83	3.2%	\$90,311,295.83	0	120	120	1,214	11/29/2012

**MWRP Phase 2 Expansion and Flood Protection Improvements
PR 20214 (1599), 20542 (1706), 30214 (1150), and 30542 (1118)
Construction Summary**

Contractor: J R Filanc Construction
Design Engineer: HDR

			Contract Amount						Contract Days				Original Completion Date:
			Original Contract Amount: \$ 87,479,450.00						Original Days: 1,094				8/1/2012
Change Order	Description	Category	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
55	Approved by Director of Engineering & Construction Approved on January 11, 2012			\$24,469.23	\$2,831,845.83	\$2,856,315.06	3.3%	\$99,335,765.06	0	120	120	1,214	11/29/2012
55.1	Sodium Hypochlorite and Ferric Chloride Chemical Piping Additions (CR-128) (PR 20214,30214/Oracle 1599,1706)	A	\$9,994.81						0				
55.2	Modifications to the Existing Filter Effluent Channels (CR-204) (PR 20214,30214/Oracle 1599,1706)	C	\$14,474.42						0				
56	Approved by Director of Engineering & Construction Approved on January 20, 2012			\$24,315.75	\$2,856,315.06	\$2,880,630.81	3.3%	\$99,360,080.81	47	120	167	1,261	1/15/2013
56.1	Existing Sludge Pump Room Modifications (CR-147) (PR 20214,30214/Oracle 1599,1706)	B	\$19,483.75						0				
56.2	Structural Modifications for 20" LPA Penetration at MBR Building (CR-213) (PR 20214,30214/Oracle 1599,1706)	C	\$4,832.00						47				
57	Approved by Board of Directors Approved on February 27, 2012			\$116,206.53	\$2,880,630.81	\$2,996,837.34	3.4%	\$99,476,287.34	0	167	167	1,261	1/15/2013
57.1	Change from 3-Ton Bridge Crane to 5-Ton Bridge Crane (CR-195) (PR 20214,30214/Oracle 1599,1706)	C	\$116,206.53						0				
58	Approved by Board of Directors Approved on February 27, 2012			(\$669,030.20)	\$2,996,837.34	\$2,327,807.14	2.7%	\$89,807,257.14	0	167	167	1,261	1/15/2013
58.1	Final Quantity Adjustment due to Differing Site Conditions of Bid Item A 06 - Precast Prestressed Concrete Driven Piles - Structure Files (PR 20214,30214/Oracle 1599,1706)	B	(\$669,030.20)						0				
59	Approved by Director of Engineering & Construction Approved on February 23, 2012			\$24,975.26	\$2,327,807.14	\$2,352,782.40	2.7%	\$89,832,232.40	0	167	167	1,261	1/15/2013
59.1	South Inflow Interceptor Modifications (CR-169) (PR 20214,30214/Oracle 1599,1706)	B	\$24,975.26						0				
60	Approved by Director of Engineering & Construction Approved on February 24, 2012			\$24,875.42	\$2,352,782.40	\$2,377,657.82	2.7%	\$89,857,107.82	0	167	167	1,261	1/15/2013
60.1	Installation of 1" and 2" Conduits at High Rate Clarifier (CR-058) (PR 20214,30214/Oracle 1599,1706)	B	\$1,225.50						0				
60.2	Floodwall Revisions Due to 5 kV and Transmitter Conflict (CR-148) (PR 20542 (1150)/30542 (1118))	B	\$1,485.98						0				
60.3	Pump call relays for Area 800 polymer and sand feed LCPs (CR-189) (PR 20214,30214/Oracle 1599,1706)	A	\$1,013.84						0				
60.4	Modifications to Flood Wall Entrance on Riparian (CR-222) (PR 20542 (1150)/30542 (1118))	B	\$17,922.87						0				
60.5	Existing 30-Inch Wall Spools at SBW Tank (CR-223)(PR 20214,30214/Oracle 1599,1706)	A	\$3,227.23						0				

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**MWRP Phase 2 Expansion and Flood Protection Improvements
PR 20214 (1599), 20542 (1706), 30214 (1150), and 30542 (1118)
Construction Summary**

Contractor: J R Filme Construction
Design Engineer: HDR

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		Contract Amount							Contract Days				Original Completion Date:
		Original Contract Amount: \$ 87,479,450.00							Original Days: 1,094				8/1/2012
Change Order	Description	Category	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
61	Approved by Engineering & Operations Committee Approved on March 20, 2012 61.1 Additional sampling stations, samplers, analyzers, and associated electrical, instrumentation, and programming at Primary Effluent Pump Station, Membrane Bioreactor, and Chlorine Contact Tanks (CR-131) (PR 20214,30214/Oracle	A	\$56,853.28	\$56,853.28	\$2,377,657.82	\$2,434,511.10	2.8%	\$89,913,961.10	0	167	167	1,261	1/15/2013
62	Approved by Director of Engineering & Construction Approved on March 19, 2012 62.1 Additional Electrical Work to Site Glass for Scum Line at Primary Sludge Room (CR-044)(PR 20214,30214/Oracle 62.2 T12/T13 Substation Pad Modifications (CR-120)(PR 20214,30214/Oracle 1599,1706) 62.3 Removal of ACP Pipe in Primary Sludge Room (CR-124) (PR 20214,30214/Oracle 1599,1706) 62.4 Pressure Testing of 14-Inch Butterfly Valves at MPS-2 (CR-187) (PR 20214,30214/Oracle 1599,1706) 62.5 Pipe Rental for Secondary Clarifier Bypass (CR-202) (PR 20214,30214/Oracle 1599,1706) 62.6 Non-compensatory Time Extension of 117 Days for Milestone #5 - Floodwall Installation	C C B A A B	\$3,247.25 \$15,144.00 \$3,562.83 \$2,454.83 \$2,325.34 \$0.00	\$24,734.25	\$2,434,511.10	\$2,459,245.35	2.8%	\$89,938,695.35	0	167	167	1,261	1/15/2013
63	Approved by Director of Engineering & Construction Approved on March 26, 2012 63.1 Remove and Replace Existing Slide Gate at Backwash Supply Tank (CR-165)(PR 20214,30214/Oracle 1599,1706) 63.2 HRC Polymer Storage & Feed System Modifications (CR-170)(PR 20214,30214/Oracle 1599,1706) 63.3 Potholing for Utilities Not Shown on Drawings near MgOH Tanks (CR-211)(PR 20214,30214/Oracle 1599,1706)	A C C	\$18,991.09 \$3,455.19 \$2,298.35	\$24,724.63	\$2,459,245.35	\$2,483,969.98	2.8%	\$89,963,419.98	0	167	167	1,261	1/15/2013

MWRP Phase 2 Expansion and Flood Protection Improvements
 PR 20214 (1599), 20542 (1706), 30214 (1158), and 30542 (1118)
 Construction Summary

Contractor: J R Filani Construction
 Design Engineer: HDR

			Contract Amount						Contract Days				Original Completion Date:
			Original Contract Amount: \$ 87,879,650.00						Original Days: 1,094				8/1/2012
Change Order	Description	Category	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
64	Approved by E&O Committee Approved on April 17, 2012 64.1 Grading Modifications at High Rate Clarifier (CR-179) (PR 20214,30214/Oracle 1599,1706)	A	\$76,429.27	\$76,429.27	\$2,483,969.98	\$2,560,399.25	2.9%	\$90,039,849.25	0	167	167	1,261	1/15/2013
65	Approved by Director of Engineering & Construction Approved on April 19, 2012 65.1 Filler pieces between steel roof joists at CEB (CR-154)(PR 20214,30214/Oracle 1599,1706) 65.2 Highline & Relocate 6-in GW due to revised location of electrical manholes (CR-201)(PR 20214,30214/Oracle 65.3 Additional Building Signage at UV Facility (CR-205) (PR 20214,30214/Oracle 1599,1706) 65.4 Area 400 PEPs Electrical Room HVAC Modifications (CR-215) (PR 20214,30214/Oracle 1599,1706) 65.5 Revisions to the Seimens Pre-Negotiated Component Scope for the Odor Scrubber (CR-226) (PR 20214,30214/Oracle	C B A C A	\$1,072.20 \$10,739.37 \$3,432.94 \$2,186.05 \$6,796.29	\$24,226.85	\$2,560,399.25	\$2,584,626.10	3.0%	\$90,064,076.10	0	167	167	1,261	1/15/2013
66	Approved by General Manager Approved on May 1, 2012 66.1 High Rate Clarifier and Chlorine Contact Tank Coating Modifications (CR-155) 30542 (1118)	A	\$28,953.41	\$28,953.41	\$2,584,626.10	\$2,613,579.51	3.0%	\$90,093,029.51	0	167	167	1,261	1/15/2013
67	Approved by General Manager Approved on May 7, 2012 67.1 Membrane Bioreactors Air Secur Blower Control I/O Conduit Modifications (CR-101) PR 20124 (1599) 67.2 Primary Sludge Pump Modifications (CR-114) PR 20214 (1599)	A A	\$21,906.75 \$26,328.27	\$48,235.02	\$2,613,579.51	\$2,661,814.53	3.0%	\$90,141,264.53	0	167	167	1,261	1/15/2013
68	Approved by Exe. Dir. Of Engineering & Planning Approved on May 18, 2012 68.1 Backwash Surge Line Reroute to Backwash Supply Wetwell (CR-198) PR 30124 (1706) 68.2 Additional Eyewash at the UV Disinfection Facility (CR-200) PR 30214 (1706)	A A	\$20,308.25 \$4,634.95	\$24,943.20	\$2,661,814.53	\$2,686,757.73	3.1%	\$90,166,207.73	0	167	167	1,261	1/15/2013
69	Approved by Exe. Dir. Of Engineering & Planning Approved on May 23, 2012 69.1 Modifications to Existing Slab-On-Grade at Filters (CR-142) PR 30124 (1706) 69.2 Flood Wall Modifications (CR-167) PR 20542 (1150)/PR 30542 (1118) 69.3 Filters Air Flow Meter Repair and Bollards Addition (CR-173) PR 30124 (1706) 69.4 Bridge Crane Photo Sensors at Membrane Bioreactors and Ultraviolet Disinfection Facility (CR-177) PR 20214 (1599)/PR 30214 (1706)	A A A A	\$2,816.82 \$3,488.62 \$2,185.92 \$16,451.50	\$24,942.86	\$2,686,757.73	\$2,711,700.59	3.1%	\$90,191,150.59	0	167	167	1,261	1/15/2013

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MWRP Phase I Expansion and Flood Protection Improvements
 PR 30214 (1599), 20542 (1706), 30214 (1150), and 30542 (1118)
 Construction Summary

Contractor: J R Filanc Construction
 Design Engineer: HDR

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			Contract Amount						Contract Days				Original Completion Date:
			Original Contract Amount: \$ 87,479,450.00						Original Days: 1,094				8/1/2012
Change Order	Description	Category	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
70	Approved by General Manager Approved on June 26, 2012 70.1 Credit for Landscape Restoration of a Portion of the Screen Berm North of MWRP (CR-255) PR 20542 (1150)/PR 30542	A	(\$48,672.95)	(\$48,672.95)	\$2,711,700.59	\$2,663,027.64	3.0%	\$90,142,477.64	0	167	167	1,261	1/15/2013
71	Approved by Acting Exec. Director of Engineering & Construction Approved on June 28, 2012 71.1 Sauge Tank Tower Cable and Conduit Repair and Relocation (CR-210) / Photocell for 3 nightlights at UV (CR-236) PR 30214 71.2 8" line stop for removal of existing 8" sewer line (CR 217) PR 20214 (1599) 71.3 Demolition of existing 24" SBW Pipe conflicting with new 8" SBW (CR 229) PR 20214 (1599) 71.4 Demolition of existing concrete ductbank encasement near Headworks (CR 233) PR 20214 (1599) 71.5 Installation of 4-inch gate valve and associated repairs near FPS-3 Due to Failure of Existing 4-inch Reclaimed Water Loop (CR 234) PR 30214 (20214)	B	\$7,226.25	\$23,926.51	\$2,663,027.64	\$2,686,954.15	3.1%	\$90,166,404.15	0	167	167	1,261	1/15/2013
72	Approved by Acting Exec. Director of Engineering & Construction Approved on June 28, 2012 72.1 Irrigation Line Road Crossings Additions (CR-186) PR 20214 (1599), 30214 (7106) 72.2 Transformer 12, 13 conduit relocation (CR 239) PR 20214 (1599), 30214 (7106) 72.3 Biosolids conduit realignment near SWP Station (CR 245) PR 20847 (1617) 72.4 Repair of unknown 2" and 4" RW pipe during excavation of biosolids piping (CR 260) PR 20847 (1617)	C	\$14,596.59	\$23,047.77	\$2,686,954.15	\$2,710,001.92	3.1%	\$90,189,451.92	0	167	167	1,261	1/15/2013
73	Approved by Acting Exec. Director of Engineering & Construction Approved on July 3, 2012 73.1 MBR Roof and Bridge Crane Modifications (CR-264) PR 20214 (1599)	C	\$16,525.80	\$16,525.80	\$2,710,001.92	\$2,726,527.72	3.1%	\$90,205,977.72	0	167	167	1,261	1/15/2013
74	Approved by E&O Committee Approved on July 24, 2012 74.1 Relocation of Existing 16-inch Reclaimed Water Pipeline near Flow Equalization Basin (CR-240) PR 20542 (1150) and 30542 (1118)	B	\$52,342.09	\$52,342.09	\$2,726,527.72	\$2,778,869.81	3.2%	\$90,258,319.81	0	167	167	1,261	1/15/2013
75	Pending Approval from Board of Directors Pending Approval on August 13, 2012 75.1 MPS-1 Building Demolition and Electrical Relocation (CR-209) PR 20214 (1599) and 30214 (1706)	A	\$473,570.14	\$473,570.14	\$2,778,869.81	\$3,252,439.95	3.7%	\$90,731,889.95	0	167	167	1,261	1/15/2013
76	Pending Approval from General Manager			\$29,412.41	\$3,252,439.95	\$3,281,852.36	3.8%	\$90,761,302.36	0	167	167	1,261	1/15/2013

MWRP Phase 2 Expansion and Flood Protection Improvements
 PR 29214 (1599), 29542 (1706), 30214 (1150), and 30542 (1118)
 Construction Summary

Contractor: J R Filanc Construction
 Design Engineer: HDR

			Contract Amount						Contract Days				Original Completion Date:
			Original Contract Amount: \$ 87,479,450.00						Original Days: 1,094				8/1/2012
Change Order	Description	Category	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
	Pending Approval on July 30, 2012 76.1 MPS-2 Pump Pad Modifications (CR-232) PR 30214 (1706)	A	\$29,412.41						0				
77	Pending Approval from Board of Directors Pending Approval on August 27, 2012 77.1 Chlorine Contact Tank Repairs (CR-152) PR 30214 (1706)	B	\$151,336.95	\$151,336.95	\$1,281,852.36	\$3,433,189.31	3.9%	\$90,912,639.31	0	167	167	1,261	1/15/2013

Category	Total Amount	% of Original Contract
A - District Convenience/Initiation - Project Related	\$ 829,962.30	0.9%
B - Differing Site Conditions	\$ (75,737.60)	-0.1%
C - Design Oversight	\$ 320,161.54	0.4%
D - District Convenience/Initiation - Non-Project Related	\$ 2,358,823.07	2.7%
TOTAL (A+B+C+D)	\$ 3,433,189.31	3.9%
TOTAL (A+B+C - (CCO No. 8 - SCADA))	\$ 2,210,186.99	2.5%

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August 27, 2012
Prepared by: J. McGehee / R. Mori
Submitted by: K. Burton
Approved by: Paul Cook

ACTION CALENDAR

ORANGE PARK ACRES TRANSMISSION PIPELINE PROJECT CONTRACT CHANGE ORDER NO. 37

SUMMARY:

The Orange Park Acres Transmission Pipeline Project is currently being constructed by Leatherwood Construction, Inc. Staff recommends that the Board approve Contract Change Order No. 37 in the amount of \$208,121 to Leatherwood Construction, Inc. for the Orange Park Acres Transmission Pipeline Project.

BACKGROUND:

Construction of the Orange Park Acres (OPA) Transmission Pipeline Project was awarded to Leatherwood Construction, Inc. in October 2010 for the amount of \$6,786,397. This project replaces the existing riveted steel pipeline installed in 1929 and will also improve fire flow and water system pressure to the OPA area. With all steel transmission main piping and local system pressure reducing valves (PRVs) installed, and after slowly increasing the system pressure via the temporary PRV on Chapman Avenue, the OPA service area is now operating at full Zone 5 system pressure. Staff anticipates requesting final acceptance for this project at the September 2012 Board meeting.

Contract Change Order No. 37:

Contract Change Order (CCO) No. 37 includes approximately 160,000 square feet of additional asphalt grinding and final cap paving on Chapman Avenue, Rancho Santiago Boulevard, Bond Avenue, Equestrian Lane, Lomita Avenue, and Cannon Street. This change order request, in the amount of \$251,053, represents the final project pavement accounting on all 24,000 feet of pipeline installation. The additional project paving was required for several reasons including:

- Numerous unknown utilities were found during contractor potholing and required the pipeline alignment to shift between lanes, thus requiring pavement replacement in multiple lanes;
- The design consultant for the project did not properly calculate quantities for the impact of lateral appurtenance piping installation on the pavement; and
- Additional pavement rehabilitation was performed in areas where City and County of Orange inspectors and resident complaints were received due to equipment accelerating damage to road surfaces not necessarily intended for heavy equipment.

CCO No. 37 also includes a final accounting of contract bid quantities versus actual work performed and minor additions for adjustments due to field changes in the credit amount of <\$42,932>. The change order is a total net balancing of contract bid quantities versus actual work performed. Staff has reviewed Leatherwood's cost proposals, negotiated changes, and finds the final costs to be appropriate and reasonable. Staff recommends the Board approve CCO No. 37 in the amount of \$208,121, which is attached as Exhibit "A".

FISCAL IMPACTS:

Project 11408 (1279) is included in the FY 2012-13 Capital Budget. The existing budget and Expenditure Authorization are sufficient to fund Contract Change Order No. 37.

ENVIRONMENTAL COMPLIANCE:

This project is subject to the California Environmental Quality Act (CEQA). In conformance with the California Code of Regulations, Title 14, Chapter 3, Section 15004, a Mitigated Negative Declaration was adopted on August 9, 2010.

COMMITTEE STATUS:

This item was reviewed at the Engineering and Operations Committee on August 14, 2012.

RECOMMENDATION:

THAT THE BOARD APPROVE CONTRACT CHANGE ORDER NO. 37 WITH LEATHERWOOD CONSTRUCTION, INC. IN THE AMOUNT OF \$208,121 FOR THE ORANGE PARK ACRES TRANSMISSION PIPELINE, PROJECT 11408 (1279).

LIST OF EXHIBITS:

Exhibit "A" – Contract Change Order No. 37

EXHIBIT "A"

CONTRACT CHANGE ORDER

IRVINE RANCH WATER DISTRICT
 15600 Sand Canyon Avenue
 Irvine, CA 92618
 (949) 453-5300



C.O. No. 37 Page 1 of 1
 Final

Project No. 11408

Date: 08-02-12

Orange Park Acres Pipelines Code 5406

Project Title

THE FOLLOWING CHANGE TO CONTRACT, DRAWINGS AND SPECIFICATIONS IS PROPOSED.	\$ ADDITIONS	\$ DELETIONS	DAYS ±
Item No. 1: (CR No. 67) Credit amount for contract bid quantity adjustments for work not performed, including a 4" air-vac assembly, end of line blow-off, slurry fill of 4,520 LF of riveted steel pipeline, and labor for installation of the emergency 27" CML&C City of Orange pipeline. Additions for a 2" air-vac assembly and parts ordered for the deleted end of line blow-off.		\$42,932.00	0
Item No. 1: (CR No. 68) Final project balance of extra cold planing and capping of AC pavement. Includes work performed on Chipman, Orange Park Blvd, Mendis, Cannon, Rancho Santiago, and Bond due to conflicting utilities shifting the pipeline alignment, City of Orange requirements, and differing site conditions.	\$251,053.00		7
NOTE: The Contract Completion Date of August 16, 2012 is changed to August 23, 2012 with this Change Order.			
TOTAL =	\$251,053.00	\$42,932.00	
			DAYS ±

1. NET AMOUNT THIS CHANGE ORDER	\$208,121.00	7
2. ORIGINAL CONTRACT AMOUNT	\$6,786,397.00	455
3. TOTAL PREVIOUS CHANGE ORDERS	\$2,442,120.00	203
4. TOTAL BEFORE THIS CHANGE ORDER (2+3)	\$9,228,517.00	658
5. PROPOSED REVISED CONTRACT AMOUNT TO DATE (1+4)	\$9,436,638.00	665

We hereby agree to make the above change subject to the terms of this change order for the sum of:

TWO HUNDRED EIGHT THOUSAND ONE HUNDRED TWENTY ONE and no cents

8/2/12 Date Leatherwood Construction, Inc. Name of Contractor [Signature] By

SIGNATURE	DATE	APPROVAL LEVEL REQUIRED
<u>[Signature]</u> IRWD Project Engineer or Consulting Engineer	<u>8/2/12</u> Date	Department Director Approval Required <input type="checkbox"/> General Manager Approval Required <input type="checkbox"/> Committee Approval Required <input type="checkbox"/> Board Approval Required <input checked="" type="checkbox"/>
<u>[Signature]</u> Principal Engineer	<u>8/6/12</u> Date	
<u>[Signature]</u> Executive Director of Engineering & Planning	Date	By _____ Date _____
<u>[Signature]</u> General Manager	Date	<u>127808</u> Purchase Order No

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

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

August 27, 2012 ^{DS} RKM
Prepared by: R. Mori
Submitted by: K. Burton ^(KB)
Approved by: Paul Cook ^{/Cook}

ACTION CALENDAR

ON-CALL CONSTRUCTION MANAGEMENT SERVICES VARIANCE NO. 1

SUMMARY:

Staff recommends that the Board authorize the General Manager to execute Variance No. 1 to the Professional Services Agreement with CH2M Hill in the amount of \$161,000 for continued on-call construction management services for the Wells 21 and 22 Project and other capital projects as assigned.

BACKGROUND:

In September 2011, the Board authorized a Professional Services Agreement with CH2M Hill in the amount of \$300,000 for on-call construction management services for various capital projects. A construction manager from CH2M Hill has been working full-time, in an integrated resident capacity, with District staff since that time. The integration of the consultant has worked out well, with primary support being provided for the three Wells 21 and 22 Project construction contracts (the desalter plant, the pipelines, and the wellhead facilities), the Lake Forest Well No. 2 Equipping Project, and the Bee Canyon Pump Station Relocation Project.

Based on the current workload consisting of multiple, active construction projects, additional construction management support for a period of up to six months through February 2013 is being requested. Upon completion of the current high volume of construction projects, staff anticipates that these on-call construction management services will no longer be required as the workload should return to a level that can be supported by District staff.

Variance No. 1:

The schedule for the Wells 21 and 22 Projects has extended beyond the anticipated construction completion dates, and continued construction management support is anticipated to be needed through at least October 2012. The Lake Forest Well No. 2 Equipping Project and the Bee Canyon Pump Station Relocation Project are also anticipated to require continued construction management efforts over the next several months. Staff also anticipates the need for support of the multiple close-out activities associated with the Wells 21 and 22 construction contracts beyond the October 2012 construction completion date. The current construction manager provided by CH2M Hill is working well within the capital projects group and has excelled at managing these projects.

The scope of work for the construction manager in this variance will continue to be defined as on-call services. Staff has negotiated a renewal of the same favorable fully-burdened rate of \$161 per hour, which includes a vehicle and fuel, cell phone and all out-of-office expenses. Staff recommends authorizing Variance No. 1 to the Professional Services Agreement with CH2M Hill in the amount of \$161,000 for on-call construction management consultant services as attached in Exhibit "A".

FISCAL IMPACTS:

Funding for the construction management services will be provided from the various capital projects being constructed as part of each project's budget.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed at the Engineering and Operations Committee on August 14, 2012.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE VARIANCE NO. 1 TO THE PROFESSIONAL SERVICES AGREEMENT WITH CH2M HILL IN THE AMOUNT OF \$161,000 FOR CONTINUED ON-CALL CONSTRUCTION MANAGEMENT SERVICES FOR THE WELLS 21 AND 22 PROJECT AND OTHER CAPITAL PROJECTS.

LIST OF EXHIBITS:

Exhibit "A" – Variance No. 1 for CH2M Hill Construction Management Consultant Services

EXHIBIT "A"
IRVINE RANCH WATER DISTRICT
PROFESSIONAL SERVICES VARIANCE

Project Title: On-Call Resident Engineering Services
 Project No.: 10286 (1081), 11461(1498), 11616 (3712) Date: July 31, 2012
 Purchase Order No.: 504315 Variance No.: 1

Originator: IRWD ENGINEER/CONSULTANT Other (Explain) _____

Description of Variance (*attach any back-up material*):
On-call resident engineering services for Wells 21/22 Project, Lake Forest Well No. 2, Bee Canyon Pump Station, and other projects as assigned.

Engineering & Management Cost Impact:

Classification	Manhours	Billing Rate	Labor \$	Direct Costs	Subcon. \$	Total \$
Task 1 – On-Call Resident Engineering Services	1,000	161	161,000	0	0	161,000
Total \$ =						161,000

Schedule Impact:

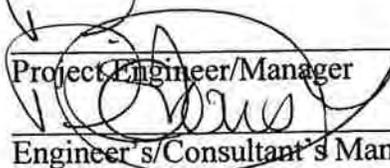
Task No.	Task Description	Original Schedule	Schedule Variance	New Schedule
1	On-Call Resident Engineering Services	August 2012	+ 6 Months	February 2013

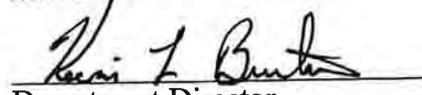
Required Approval Determination:

Total Original Contract <u>\$300,000</u> Previous Variances \$0 This Variance <u>\$161,000</u> Total Sum of Variances <u>\$161,000</u> New Contract Amount <u>\$461,000</u> Percentage of Total Variances to Original Contract <u>53.7 %</u>	<input type="checkbox"/> General Manager: Single Variance less than or equal to \$30,000. <input type="checkbox"/> Committee: Single Variance greater than \$30,000, and less than or equal to \$60,000. <input checked="" type="checkbox"/> Board: Single Variance greater than \$60,000. <input type="checkbox"/> Board: Cumulative total of Variances greater than \$60,000, or 30% of the original contract, whichever is higher.
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ENGINEER/CONSULTANT: CH2M HILL, Inc.
 Company Name

IRVINE RANCH WATER DISTRICT


 Project Engineer/Manager
 Date 8/1/12
 Engineer's/Consultant's Management Date


 Department Director Date 8/6/12
 General Manager/Comm./Board Date

