

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

November 26, 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.

PRESENTATION

Resolution No. 2012-49

3. **RESOLUTION COMMENDING CINDY BECK FOR HER SERVICE TO THE DISTRICT**

Recommendation: That the Board adopt a resolution commending Cindy Beck for her dedicated and loyal service to the District.

Reso. No. 2012-

4. **RESOLUTION COMMENDING TERESA TIFT FOR HER SERVICE TO THE DISTRICT**

Recommendation: That the Board adopt a resolution commending Teresa Tift for her dedicated and loyal service to the District.

Reso. No. 2012-

PRESENTATION (Continued)

5. RESOLUTION COMMENDING CHARLES (CHUCK) BOONE FOR HIS SERVICE TO THE DISTRICT

Recommendation: That the Board adopt a resolution commending Charles (Chuck) Boone for his dedicated and loyal service to the District.

Reso. No. 2012-

CONSENT CALENDAR

Items 6-15

6. MINUTES OF REGULAR BOARD MEETING

Recommendation: That the minutes of the November 12, 2012 Regular Board Meeting be approved as presented.

7. 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, Doug Reinhart, Peer Swan and John Withers.

8. DISTRICT STRATEGIC MEASURES DASHBOARD

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

9. OCTOBER 2012 FINANCIAL REPORTS

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report and the monthly interest rate SWAP summary for October 2012; approve the October 2012 summary of payroll ACH payments in the total amount of \$1,333,778.62, and approve the October 2012 Accounts Payable Disbursement Summary of Warrants Nos. 333641 through 334471, workers' compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$26,007,371.24.

10. UPCOMING PROJECTS STATUS REPORT

Recommendation: Receive and file.

11. PORTOLA ZONE 9 BOOSTER PUMP STATION GENERATOR BUDGET ADDITION, EXPENDITURE AUTHORIZATION AND VARIANCE

Recommendation: That the Board authorize the addition of project 11667 (4146) in the amount of \$293,700 to the FY 2012-13 Capital Budget; approve an Expenditure Authorization in the amount of \$68,200 for Project 11667 (4146); and authorize the General Manager to execute Variance No. 5 in the amount of \$28,240 with Psomas for the Portola Zone 9 Booster Pump Station Generator, Project 11667 (4146).

CONSENT CALENDAR (Continued)

Resolution No. 2012-49

Items 6-15

12. MICHELSON WATER RECYCLING PLANT CONTRACT CHANGE ORDER AND VARIANCE

Recommendation: That the Board approve Contract Change Order No. 83 with J. R. Filanc Construction, Co. in the credit amount of \$228,007.95 due to final quantity adjustment of the sewer and floodwall piles for MWRP Phase 2 Expansion and Flood Protection Improvements, projects 20214 (1599), 20542 (1150), 30214 (1706), and 30542 (1118); and approve Variance No. 2 with Delta Systems in the amount of \$70,000, for additional Scada programming for the MWRP Phase 2 Expansion, projects 20214 (1599) and 30214 (1706).

13. STRAND RANCH RECOVERY FACILITIES PROJECT - REDUCTION OF RETENTION

Recommendation: that the Board find that satisfactory progress is being made on the District's construction contract with W.M. Lyles Company; authorize the reduction of retention from 10% to 5% of the contract amount; and release of funds to W.M. Lyles company in excess of 5% of the contract amount from retention currently held for the strand ranch groundwater recovery facilities, project 11289 (2812).

14. PROPOSAL TO PROVIDE FLEET MAINTENANCE SERVICES TO THE ORANGE COUNTY CEMETERY DISTRICT

Recommendation: That the Board approve the draft terms and conditions for IRWD to provide maintenance and repair of Orange County Cemetery District's small fleet equipment for a two-year period and to authorize the General Manager to execute a municipal services agreement with the Orange County Cemetery District subject to non-substantive changes.

15. COUNTY REQUEST FOR UPDATED TAX RESOLUTIONS

Recommendation: Staff recommends that the Board adopt a revised resolution establishing Ad Valorem Tax Revenues for Fiscal year 2012/13.

Reso. No. 2012-

ACTION CALENDAR

16. INTERIOR/EXTERIOR RECOATING OF LAKE FOREST ZONE A RESERVOIR NO. 2 – EXPENDITURE AUTHORIZATION AND CONSTRUCTION AWARD

Recommendation: That the Board approve an Expenditure Authorization in the amount of \$386,100 for Project 30324 (1817) and authorize the General Manager to execute a construction contract with J. Colon Coatings Inc., in the amount of \$385,580 for the interior/exterior recoating of the Lake Forest Zone A Reservoir No. 2.

17. SAN JOAQUIN MARSH CAMPUS MOLD REMEDIATION AT FIVE BUILDINGS – BUDGET ADDITION AND EXPENDITURE AUTHORIZATIONS

Recommendation: That the Board authorize the addition of Project 11665 (4130) in the amount of \$369,600 to the FY 2012-13 Capital Budget, and approve an Expenditure Authorization in the amount of \$369,600 for the San Joaquin Marsh campus mold remediation, Project 11665 (4130).

18. SYPHON RESERVOIR INTERIM IMPROVEMENT PROJECT – EXPENDITURE AUTHORIZATION AND EQUIPMENT PRE-PURCHASE

Recommendation: That the Board approve an Expenditure Authorization for Project 30374 (3729) in the amount of \$345,400; authorize the General Manager to execute a contract with Hellan strainers in the amount of \$143,610 for the pre-purchase of two 14-inch strainers; and authorize the General Manager to execute a contract with West Coast Pipe in the amount of \$101,273.44 for the pre-purchase of 36-inch steel pipe for Syphon Reservoir Interim Improvements, Project 30374 (3729).

OTHER BUSINESS

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

19. A. General Manager's Report

OTHER BUSINESS (Continued)

B. Directors' Comments

C. CLOSED SESSION RELATIVE TO CONFERENCE WITH REAL PROPERTY NEGOTIATOR –
Government Code Section 54956.8:
Property: Portions of Sections 1 T30S, R25E MDB&M, Kern County
Parcels Nos. 160-010-39,160-010-42
Negotiating Parties: Eric Averett, General Manager, Rosedale-Rio Bravo Water Storage District
Agency Negotiator: Paul Cook, General Manager
Purpose of Negotiations: Price and Term of Payment

D. Open Session

E. 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.

November 26, 2012

Prepared by: L. Oldewage

Submitted by: D. Pedersen *D.W.P.*

Approved by: Paul Cook *P. Cook*

PRESENTATION

RESOLUTION COMMENDING CINDY BECK
FOR HER SERVICE TO THE DISTRICT

SUMMARY:

As Ms. Cindy Beck has retired from the District following 29 years of dedicated and outstanding service, staff has prepared a resolution (provided as Exhibit "A") to honor her at the Board meeting.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2012 –

RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT COMMENDING
CINDY BECK FOR HER DEDICATED AND
LOYAL SERVICE TO THE DISTRICT.

LIST OF EXHIBITS:

Exhibit "A" – Resolution

RESOLUTION NO. 2012-

RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT COMMENDING
CINDY BECK FOR HER DEDICATED AND
LOYAL SERVICE TO THE DISTRICT

WHEREAS, Cindy Beck began her career at the Los Alisos Water District (LAWD) on November 28, 1983; and

WHEREAS, Cindy transitioned to the Irvine Ranch Water District (IRWD) with the consolidation of IRWD and LAWD on December 16, 2000, as a Laboratory and Environmental Compliance Supervisor; and

WHEREAS, Cindy became an Environmental Compliance Specialist on July 1, 2001; and

WHEREAS, on July first of 2005, Cindy was promoted to a Regulatory Compliance Manager; and

WHEREAS, Cindy has served as a member of the Board of Directors of the Santa Ana River Basin Section of the California Water Environment Association (CWEA), dedicating countless hours of volunteer time to promote industry professional development; and

WHEREAS, Cindy was recognized for significant contributions to the industry as a recipient of the CWEA's 5S Secret Society of Sanitary Sludge Shovelers Award; and

WHEREAS, Cindy was instrumental in establishing, maintaining and managing numerous effective regulatory compliance programs for IRWD; and

WHEREAS, Cindy has provided the District with valuable expertise on water quality and regulatory compliance for over 25 years; and

WHEREAS, Cindy's reputation for her integrity, professionalism and strong work ethic have earned her the respect of her staff and co-workers; and

NOW, THEREFORE, BE IT RESOLVED, the Board of Directors of the Irvine Ranch Water District commends Cindy Beck for her long and loyal service. Her dedication and outstanding service to the District stands as an example to all employees. On this occasion, the Board extends its best wishes to Cindy Beck in her retirement.

SIGNED and APPROVED this 26th day of November 2012.

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

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

November 26, 2012
Prepared and
Submitted by: G. Jackson
Approved by: Paul Cook *KJB*

PRESENTATION

RESOLUTION COMMENDING TERESA TIFT
FOR HER SERVICE TO THE DISTRICT

SUMMARY:

Provided as Exhibit "A" is a resolution recognizing Teresa Tift for her years of dedicated and loyal service to Irvine Ranch Water District. Staff has prepared a resolution to honor her at the Board meeting.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2012 –

RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT COMMENDING
TERESA TIFT FOR HER DEDICATED AND
LOYAL SERVICE TO THE DISTRICT.

LIST OF EXHIBITS:

Exhibit "A" – Resolution

RESOLUTION NO. 2012-

RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT COMMENDING
TERESA TIFT FOR HER DEDICATED AND
LOYAL SERVICE TO THE DISTRICT

WHEREAS, Teresa Tift joined the Irvine Ranch Water District Customer Service team on August 30, 1993 as a Customer Service Clerk II; and,

WHEREAS, Teresa was promoted to Customer Service Clerk III on April 1, 1999 and then promoted to Customer Service Supervisor July 1, 2005; and,

WHEREAS, Teresa is to be recognized for managing the implementation of the initial Customer Service Specialist I Training Program; and,

WHEREAS, Teresa demonstrated her leadership qualities voicing her viewpoints in a very professional manner; and,

WHEREAS, Teresa is known for her ability to turn negative situations into positive ones; and,

WHEREAS, Teresa has been in the forefront to ensure that the District's emergency procedures are in place in the Customer Service Department, making the staff safe and secure; and,

WHEREAS, Teresa has earned the respect of customers, admired as a supervisor, valued by her team, and will be remembered as a great mentor.

NOW, THEREFORE, BE IT RESOLVED, the Board of Directors of Irvine Ranch Water District commends Teresa Tift for her dedicated years of service and expresses its gratitude for the significant contributions she has rendered to the Irvine Ranch Water District for 19 years.

ADOPTED, SIGNED AND APPROVED this 26th day of November 2012.

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

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

November 26, 2012
Prepared by: Wayne Posey
Submitted by: Wayne Posey
Approved by: Paul Cook *KB*

PRESENTATION

RESOLUTION COMMENDING CHUCK BOONE
FOR HIS SERVICE TO THE DISTRICT

SUMMARY:

As Mr. Chuck Boone has retired from the District following 22 years of dedicated and outstanding service, staff has prepared a resolution (provided as Exhibit "A") to honor him at the Board meeting.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2012 –

RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT COMMENDING
CHUCK BOONE FOR HIS DEDICATED AND
LOYAL SERVICE TO THE DISTRICT.

LIST OF EXHIBITS:

Exhibit "A" – Resolution

RESOLUTION NO. 2012-

RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT COMMENDING
CHUCK BOONE FOR HIS DEDICATED AND
LOYAL SERVICE TO THE DISTRICT

WHEREAS, Chuck Boone began his career at the Irvine Ranch Water District on December 3, 1990, as a Maintenance Mechanic I; and

WHEREAS, Chuck was promoted to Maintenance Mechanic II in July 1, 1991; promoted to a Maintenance Mechanic III in July 1, 1994; became a Lead Maintenance Mechanic on July 1, 1998; and a Mechanical Maintenance Supervisor on July 1, 2007; and

WHEREAS, Chuck is recognized for his significant contributions during the procurement, installation and start-up of the Michelson Water Recycling Plant power generation station;

WHEREAS, Chuck served as a valuable member 1995/96 Collections/Waste Water Treatment Improvement Process Review Committee; and

WHEREAS, Chuck was instrumental in establishing and maintaining an effective AQMD source testing program for the District; and

WHEREAS, Chuck is well-know for being the resident expert for the repair of all diesel and natural gas engines; and

WHEREAS, Chuck has provided valuable expertise with his knowledge on chemical injection systems and ensured that the equipment being used was reliable and efficient; and

WHEREAS, Chuck was an established coach and mentor who took great pride in training new employees; and

WHEREAS, Chuck's reputation for his integrity, professionalism, modesty, and strong work ethic have earned his the respect of his staff, co-workers, and supervisors.

NOW, THEREFORE, BE IT RESOLVED, the Board of Directors of the Irvine Ranch Water District commends Chuck Boone for his long and loyal service. His dedication and outstanding service to the District stands as an example to all employees. On this occasion, the Board extends its best wishes to Chuck Boone in his retirement.

SIGNED and APPROVED this 26th day of November 2012.

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

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

November 26, 2012
Prepared and
Submitted by: N. Savedra
Approved by: P. Cook 

CONSENT CALENDAR

MINUTES OF REGULAR BOARD MEETING

SUMMARY:

Provided are the minutes of the November 12, 2012 Regular Board meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE NOVEMBER 12, 2012 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – Minutes of November 12, 2012 Regular Board Meeting

Exhibit “A”

MINUTES OF REGULAR MEETING – November 12, 2012

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order at 5:05 p.m. by President Matheis on November 12, 2012 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

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

Directors Absent: None

Also Present: General Manager Cook, Acting Director of Finance/Treasurer Jacobson, Executive Director of Finance Clary; Executive Director of Operations Pedersen, Executive Director of Engineering Burton, Executive Director of Water Policy Heiertz, Legal Counsel Arneson, Director of Human Resources Wells, Director of Public Affairs Beeman, Director of Water Resources Weghorst, Assistant Secretary Savedra, Ms. Fiona Sanchez, Mr. Jim Reed, Mr. Bruce Newell and other members of the public and staff.

WRITTEN COMMUNICATION: None.

ORAL COMMUNICATION:

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

CONSENT CALENDAR

On MOTION by Swan, seconded and unanimously carried, CONSENT CALENDAR ITEMS 3 THROUGH 9 WERE APPROVED AS FOLLOWS:

3. MINUTES OF REGULAR BOARD MEETING

Recommendation: That the minutes of the October 22, 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, John Withers and Peer Swan.

5. ORANGE PARK ACRES DOMESTIC WATER TRANSMISSION MAIN PROJECT FINAL ACCEPTANCE

Recommendation: That the Board accept construction of the Orange Park Acres Domestic Water Transmission Main, project 11408 (1279); 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.

6. THIRTEENTH AMENDMENT TO AGREEMENT FOR PARTICIPATION IN SPECIFIED MUNICIPAL WATER DISTRICT OF ORANGE COUNTY REBATE PROGRAMS

Recommendation: That the Board authorize the General Manager to execute a Thirteenth Amendment to the Agreement for Participation and Co-funding by Irvine Ranch Water District in Specified Municipal Water District of Orange County Rebate Programs, subject to non-substantive changes, adding \$100,000 in funding for non-residential customers for FY 2012-13.

7. QUITCLAIM OF REAL PROPERTY – THE IRVINE COMPANY VILLAGE OF STONEGATE (TRACT NOS. 17447 AND 17484)

Recommendation: That the Board adopt the following resolution by title:

RESOLUTION NO. 2012-43

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

CONSENT CALENDAR - Continued

8. QUITCLAIM OF REAL PROPERTY – IRVINE COMMUNITY DEVELOPMENT COMPANY - VILLAGE OF STONEGATE (TRACT NO. 17327)

Recommendation: That the Board adopt the following resolution by title:

RESOLUTION NO. 2012-44

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

9. QUITCLAIM OF REAL PROPERTY – IRVINE COMMUNITY DEVELOPMENT COMPANY - VILLAGE OF STONEGATE (TRACT NO. 17486)

Recommendation: That the Board adopt the following resolution by title:

RESOLUTION NO. 2012-45

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

ACTION CALENDAR

PROPOSED DECREASES TO CALPERS EMPLOYER PAID MEMBER CONTRIBUTIONS (EPMC)

General Manager Cook reported that during the review of the Operating Budget for Fiscal Year 2011-12, opportunities to manage costs associated with the current IRWD employee pension program were identified. On April 25, 2011, a multi-year process was implemented that would eventually transition all of the District's employees to paying the full 8% of the CalPERS employee contribution. Mr. Cook said that the following adjustments of employee-paid contributions were implemented on July 1, 2011, CalPERS employee contributions for Executive Management increased from 1% to 6%; Senior Management employee contributions increased from 1% to 5%; and all other Full-time Regular Employee contributions increased from 1% to 3%. He said on March 1, 2012, CalPERS employee contributions for Executive Management increased from 6% to 8%; Senior Management employee contributions increased from 5% to 7%; and all other Full-time Regular Employee contributions increased from 3% to 5%.

Mr. Cook said that as part of the multi-year process to transition employees to paying the full 8% of the CalPERS employee contribution, increases in the employee contribution rates are proposed as follows:

- Effective March 1, 2013, all Full-time Regular Employees will pay an additional 1% into CalPERS, decreasing the Employer Paid Member Contribution (EPMC) from 3% to 2% and increasing the employee contributions from 5% to 6%, and
- Effective March 1, 2013, all Department Directors and Executive Directors (Senior Management) will pay an additional 1% into CalPERS, decreasing the Employer Paid Member Contribution from 1% to 0% and increasing the employee contributions from 7% to the full 8%.

Mr Cook said that at its meeting on September 24, 2012 and in conjunction with the signing of the Memorandum of Understanding between the IRWD Employees Association (IRWDEA) and IRWD, the Board agreed to decrease EPMC effective with the first pay period in March 2013 (March 2, 2013). For the Board to make the adjustments to the EPMC to CalPERS, it needs to adopt two resolutions stipulating the specific amount of each adjustment.

Director Swan reported that this item was reviewed and approved by the Finance and Personnel Committee on November 6, 2012. There being no further discussion, On MOTION by Swan, seconded and unanimously carried, THE BOARD ADOPTED THE FOLLOWING TWO RESOLUTIONS BY TITLE:

RESOLUTION NO. 2012-46

RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT MODIFYING
EMPLOYER PAID MEMBER CONTRIBUTIONS
FOR SENIOR MANAGEMENT STAFF

RESOLUTION NO. 2012-47

RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT MODIFYING
EMPLOYER PAID MEMBER CONTRIBUTIONS
FOR FULL-TIME REGULAR EMPLOYEES

PROPOSED CONSUMER PRICE INDEX CHANGES TO SALARY GRADE SCHEDULE AND
EMPLOYEE COST OF LIVING ADJUSTMENTS

General Manager Cook reported that each year staff recommends changes to the Salary Grade Schedule and employee cost of living adjustments (COLA) based on a September to September comparison of the Consumer Price Index (CPI) for the Orange-Riverside-Los Angeles All Urban Consumers. Mr. Cook said that the Bureau of Labor Statistics released the CPI for the one year period September 2011 to September 2012 and it reflected a change in CPI from 233.022 to 238.104, or 2.18%. He said that the COLA adjustments are made effective December 1 of each year, and that this item implements the COLA to be effective December 1, 2012 as included in the

Memorandum of Understanding between IRWD Employees Association and IRWD, dated September 24, 2012.

Director Swan reported that this item was reviewed and approved by the Finance and Personnel Committee on November 6, 2012. There being no further discussion, On MOTION by Swan, seconded and unanimously carried, THE BOARD APPROVED A 2.18% INCREASE TO SALARY GRADE RANGES AND A 2.18% COST OF LIVING ADJUSTMENT (COLA) FOR EACH ELIGIBLE EMPLOYEE, BOTH EFFECTIVE DECEMBER 1, 2012, AND ADOPTED THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2012-48

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT, RESCINDING
RESOLUTION NO. 2012-38 AND ESTABLISHING A REVISED
SCHEDULE OF POSITIONS AND SALARY RATE RANGES.

ADDITIONAL CONTRIBUTIONS FOR FISCAL YEAR 2012-13 TO THE CALIFORNIA
PUBLIC EMPLOYEES RETIREMENT SYSTEM

General Manager Cook reported that CalPERS required employer contributions can be made in two ways: (1) a lump sum payment option made between July 1 and July 15 of the beginning of the new fiscal year; or (2) making payments based on each semi-monthly payroll total based on a payroll percentage established annually by CalPERS's actuaries. The IRWD Operating Budget for Fiscal Year 2012-13 included \$4,210,300 for the CalPERS employer contribution rate and included an additional contribution of approximately \$2,328,000 (paid quarterly) to reduce the District's unfunded liability. Mr. Cook said additional contributions in excess of the District's employer contribution rate can be made during the fiscal year at the discretion of the District. In addition to the previously approved CalPERS contributions for Fiscal Year 2012-13, staff recommends that the District make an excess contribution(s) not to exceed a total of \$5,000,000 to CalPERS during the Fiscal Year 2012-13, with the timing and amount of additional contributions delegated to the Finance and Personnel Committee.

Mr. Cook said additional contributions to reduce the District's unfunded liability is consistent with previous years when excess contributions have been made based on expected liquidity and cash flow expectations. Beginning in FY 2008-09, the District has made additional contributions in excess of its annual required contribution totaling approximately \$11.6 million. He said the ability to make additional contributions is consistent with the District's policy principles to strategically reduce the District's actuarially-determined unfunded liability. Excess contribution(s) to the California Public Employees Retirement System are reflected as a loan from the District's Replacement Fund.

Director Swan reported that this item was reviewed and approved by the Finance and Personnel Committee on November 6, 2012. Director Swan said that to date the District is \$13 million above what contribution that were required and with the additional \$5 million this will bring the District to \$18 million above what the required contributions have been. He said the Committee will likely wait for more information on the U.S. "fiscal cliff" before proceeding. There being no further discussion, On MOTION by Swan, seconded and unanimously carried, THE BOARD APPROVED

THE OPTION TO MAKE AN EXCESS CONTRIBUTION(S), IN ADDITION TO THE PREVIOUSLY APPROVED FY 2012-13 OPERATING BUDGET AMOUNT, WITH THE ADDITIONAL CONTRIBUTION AMOUNT(S) NOT TO EXCEED A TOTAL OF \$5,000,000 TO CALIFORNIA PUBLIC EMPLOYEES RETIREMENT SYSTEM (CALPERS) DURING THE FISCAL YEAR 2012-13, WITH THE TIMING AND AMOUNT OF THE ADDITIONAL CONTRIBUTION(S) DELEGATED TO THE FINANCE AND PERSONNEL COMMITTEE.

INDEMNIFICATION AND REIMBURSEMENT AGREEMENT WITH DUDLEY RIDGE WATER DISTRICT

General Manager Cook reported the District has been working with Dudley Ridge Water District (DRWD) on developing a long-term unbalanced exchange program that would allow IRWD to store State Water Project (SWP) water allocated to Jackson Ranch in IRWD's Strand Ranch Integrated Banking Project in Kern County (Exchange Program).

Using a PowerPoint presentation, Director of Water Resources Weghorst provided an overview of the Unbalanced Exchange Program with Dudley Ridge Water District.

Mr. Weghorst reported that on January 25, 2010, the Board of Directors authorized the purchase of the Jackson Ranch located in the DRWD service area. The purchase included 883.26 acres of land, Kern Water Bank participation rights, stored water and the right to use 1,748 acre-feet of SWP Table A water that is allocated to the land in accordance with the DRWD's Rules and Regulations. It is IRWD's intention to deliver the Table A water allotted to the Jackson Ranch to the Strand Ranch Integrated Banking Project (Water Bank) for storage on an unbalanced exchange basis.

Mr. Weghorst said that on July 19, 2012, staff presented to the ad hoc Water Banking Committee proposed terms for an Exchange Program with DRWD and the Committee authorized staff and legal counsel to work with DRWD to finalize the terms for the proposed Exchange Program and prepare a letter agreement incorporating the proposed terms for further consideration by the Committee and Board. The proposed terms for the Exchange Program provide for IRWD to store up to 8,700 acre-feet of the Jackson Ranch SWP supplies in the Water Bank over the next five years on an unbalanced exchange basis. One-half of the delivered water would be returned to Jackson Ranch within ten years as required by DWR. During years when Table A water is being delivered to the Water Bank, irrigation of areas at the Jackson Ranch that are still being farmed would occur using water from storage in IRWD's account in the Kern Water Bank. He said a Notice of Determination for the final Negative Declaration for the Project was filed by IRWD on January 14, 2010, and by DRWD on January 20, 2010. The Negative Declaration evaluated the delivery of IRWD's SWP Table A water from the Jackson Ranch to the Water Bank.

He said the terms for the proposed Exchange Program were presented at the DRWD Board meeting on October 10, 2012. After discussion of the program, DRWD determined that the Exchange Program as proposed is consistent with DRWD's Rules and Regulations and that a separate agreement would not be necessary to implement the program. DRWD will facilitate the implementation of the proposed program through DWR contingent upon the execution of an Indemnification and Reimbursement Agreement with IRWD.

Mr. Weghorst said that in order to avoid costs being incurred by other DRWD landowners: IRWD shall indemnify, defend and hold DRWD harmless against any loss, cost, litigation, expense or claim (except by willful misconduct of DRWD); it would provide for IRWD to reimburse DRWD for their

expenses in implementing the program. He said that staff and legal counsel worked to make sure the Indemnification Agreement does not impact the agreement that DRWD and IRWD signed in February 2012.

Mr. Weghorst said that DRWD will initiate the Unbalance Exchange Program with a letter of request to DWR and upon DWR approval the Exchange and Point-of-Delivery agreements will be prepared and executed. He said that in order to facilitate the Exchange Program, DRWD will follow the procedures that it uses for implementing exchange programs for other DRWD land owners. This procedure minimizes DRWD and DWR costs to process and administer annual delivery requests. DRWD with the assistance of IRWD staff has prepared a letter to DWR requesting a State Water Contractors review of the program with a follow up recommendation to DWR to develop the long-term agreements needed to approve the program. This letter to DWR includes the terms for the proposed Exchange Program and includes signature blocks for IRWD's concurrence and MWD's consent. DWR will prepare exchange and delivery agreements for the program which will be similar to those prepared for IRWD's Pilot Exchange Programs with Antelope East-Kern Water Agency and the Central Coast Water Authority.

Mr. Weghorst said that Metropolitan Water District of Southern California's (MWD) consent of the proposed Exchange Program is needed for IRWD to secure SWP water and have it delivered by exchange into IRWD's service area. Through MWD's consent, MWD will act on IRWD's behalf as the exchangee under the terms of the existing Coordinated Operating, Water Storage, Exchange and Delivery Agreement (MWD Agreement). As the exchangee for IRWD's SWP water transactions, MWD has the right to decide whether the IRWD-secured SWP water is delivered into storage at the Water Bank or to MWD's reservoirs in Southern California. If the water is stored in Southern California, MWD would ensure that 50 percent of the water is returned to DRWD within ten years as required by DWR.

Mr. Weghorst reviewed the unit cost of SWP water to IRWD's service area resulting from the proposed Exchange Program and the cost of returning half the water back to the Jackson Ranch for irrigation under a farm lease arrangement. If MWD opts to store the water in its Southern California reservoirs, then the cost of water at IRWD's service area will be \$929 per acre-foot. If the water is stored in the Water Bank, then the estimated cost to IRWD's service area will be \$983 per acre-foot for water recovered by exchange and \$1,043 per acre-foot for water recovered by pumping groundwater wells. He said consistent with the MWD Agreement, all water stored, recovered and delivered into IRWD's service area from the IRWD/DRWD Exchange Program will be treated as extraordinary supply during periods of an MWD Water Supply Allocation. The cost of water to be delivered to IRWD from the proposed Exchange Program is expected to break even with MWD's Full Service Tier-2 rate within a few years. Currently the Tier-2 rate is \$920 per acre-foot and the MWD Allocation plan Penalty rate is \$2,634 per acre-foot.

Mr. Weghorst said the cost of water returned to the Jackson Ranch for future irrigation by a farm leasee will range from \$157 to \$271 per acre-foot depending on where MWD opts to store the water and how the water is to be recovered from the Water Bank. Additional costs may be assigned to the leasee for the recovery of IRWD's cost of the purchase of the SWP Table A allotment associated with the Jackson Ranch.

Director Swan reported that this item was reviewed and approved by the Water Banking Committee on November 5, 2012. Following discussion, on MOTION by Swan, seconded and unanimously carried, THE BOARD AUTHORIZED THE GENERAL MANAGER TO EXECUTE THE

INDEMNIFICATION AND REIMBURSEMENT AGREEMENT BETWEEN IRVINE RANCH WATER DISTRICT AND DUDLEY RIDGE WATER DISTRICT AND AUTHORIZED THE GENERAL MANAGER TO CONCUR WITH THE UNBALANCED EXCHANGE TERMS PER THE LETTER TO THE DEPARTMENT OF WATER RESOURCES, BOTH SUBJECT TO NON-SUBSTANTIVE CHANGES.

GENERAL MANAGER'S REPORT

General Manager Paul Cook announce the arrival of the new Executive Director of Finance and Administration Cheryl Clary and invited her to say a few words to the Board. Paul along with President Matheis welcomed Cheryl to her first board meeting and to the District. President Matheis added that she was pleased to have her join IRWD and that she would be a great asset. Paul also recognized the entire finance department staff for stepping-up to help each other and also acting Finance Director Rob Jacobson during the absence of a CFO.

Mr. Cook reported that he had an urgent necessity notification relative to the emergency work done at the Coastal Zone B and D Booster Pump Station due to a leak that was caused by severe corrosion of a 30-inch recycled water pipeline. An emergency contract was issued to Paulus Engineering for a total of \$147,075.40 to complete the repair. Since this contract exceeded \$100,000, the General Manager informed the board of this and as required under the District's procurement policy.

Mr. Cook reported the District has reached an agreement with developer Lennar at the Great Park Five Point neighborhood project relative to bioretention cells as an alternative to a natural treatment installation. The City of Irvine has been involved as has the Santa Ana Regional Water Quality Control Board. He said he will continue to update the Board through his Weekly Reports.

The Operations wastewater treatment group, Dave Hayden, Jesse Perez, Alex Coria and Tony Brunning participated in a contest at the Second Harvest Food Bank held by the Great Park and won second place for the "Best Scarecrow" better known as the "Sewer Crow". The event raised \$13,000 for Second Harvest.

DIRECTORS' COMMENTS

Director Reinhart reported that he attended the WACO meeting and MWDOC Board workshop last week. He also mentioned that he was no longer a director at SOCWA, so he did not attend their recent meeting.

Director LaMar reported he attended the NWRI The Clarke Prize conference, where Paul Cook gave a presentation. He also attended the MWDOC Board workshop and a MWDOC/OCWD meeting with John Laird along with Paul Cook.

Director Swan reported that he also attended the NWRI The Clarke Prize conference, after attending the WACO meeting. He asked that a possible pilot plant using Dr. Perry's technology, with joint agency participation, be referred to the Engineering and Operations Committee. He said he also attended the NWRI Drought Response workshop, and an OWOW Water Supply Sub-Committee Meeting last week.

Director Withers reported that he will attend a LAFCO meeting later in the week.

Director Matheis reported she attended the NWRI The Clarke Prize conference, ISDOC Executive Committee meeting and an employee biosolids appreciation event.

CLOSED SESSION

President Matheis said that a Closed Session would be held relative to CONFERENCE WITH LABOR NEGOTIATOR pursuant to Government Code Section 54957.6 – Agency Designated Representative: President Matheis Unrepresented Employee: Paul Cook.

OPEN SESSION

Following the Closed Session, the meeting was reconvened with Directors Swan, Reinhart, LaMar, Withers, and Matheis present. On MOTION by Swan, seconded and unanimously carried, **THE GENERAL MANAGER WAS GRANTED A PERFORMANCE AWARD EQUAL TO 4.307% OF HIS CURRENT BASE SALARY.**

ADJOURNMENT

President Matheis adjourned the meeting at 7:30 p.m.

Approved and signed this 26th day of November, 2012.

President, IRVINE RANCH WATER DISTRICT

Assistant Secretary, IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

Legal Counsel - Bowie, Arneson, Wiles & Giannone

November 26, 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

11/15/12 IRWD Long-Term Financing Plan Meeting
12/3-7/12 ACWA Fall Conference, San Diego, CA

Mary Aileen Matheis

11/15/12 IRWD Long-Term Financing Plan Meeting
12/3-7/12 ACWA Fall Conference, San Diego, CA
12/12-14/12 Colorado River Water Users Association Annual Conference

Doug Reinhart

12/3-7/12 ACWA Fall Conference, San Diego, CA
12/10-11/12 WaterReuse Board of Directors Meeting, Los Angeles, CA
12/12-14/12 Colorado River Water Users Association Annual Conference

Peer Swan

11/14/12 OCWA November Meeting
11/19/12 ACWA California Water Finance Task Force Meeting, Sacramento, CA
12/3-7/12 ACWA Fall Conference, San Diego, CA
12/12-14/12 Colorado River Water Users Association Annual Conference

John Withers

12/3-7/12 ACWA Fall Conference, San Diego, CA

RECOMMENDATION:

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

LIST OF EXHIBITS:

None

November 26, 2012
Prepared and Submitted by: Various
Approved by: Paul Cook *PLB*

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

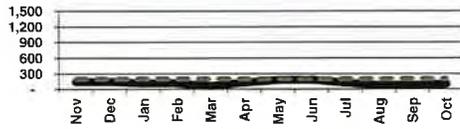
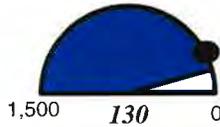
IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES DASHBOARD

October 2012

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

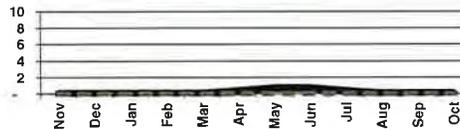
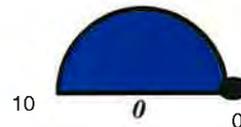
Reliability-Potable/Nonpotable

Target = 200 customer hours out of service this month



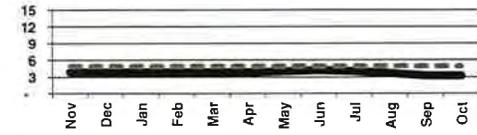
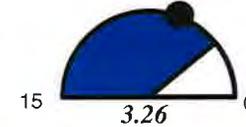
Sewer Spills

Target = 0 Spills this month



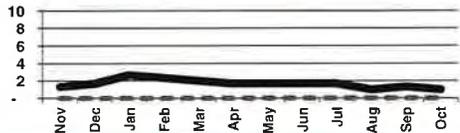
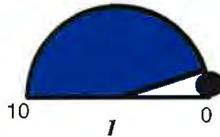
OCSD CORF Flows

Target = 4.95 MGD
CORF flow to OCSD this month



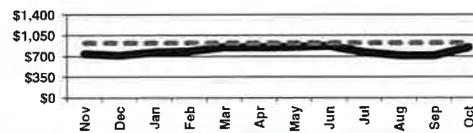
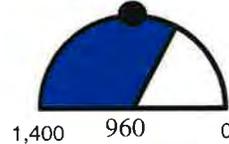
OSHA Recordables

Target = 0 reportable accidents this month



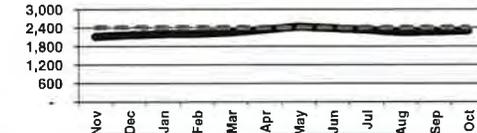
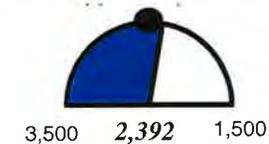
Water System Cost--Potable

Target = \$920/af delivered



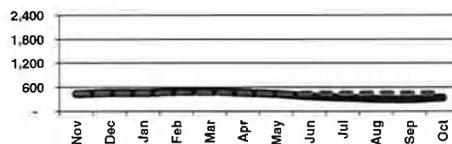
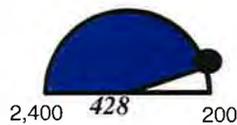
Wastewater Cost

Target = \$2,409/MG processed



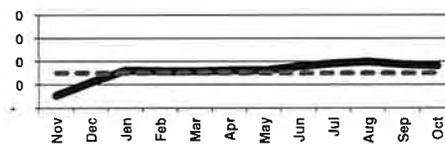
Water System Cost--Nonpotable

Target = \$454/ac-ft delivered this month



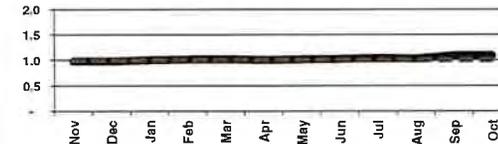
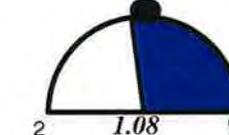
MWRP Energy Cost per kWh

Target = .0792 cost per kWh this month



Enterprise Return

Target = 1.0 (net income/goal) last month



● Target shown on gauge
00.00 Figure for Current Month

Target shown on trend graph
3-month rolling average

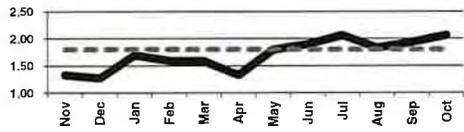
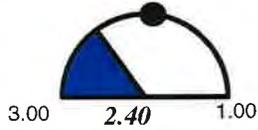
**IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES DASHBOARD**

October 2012

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

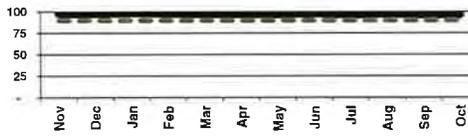
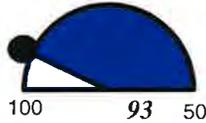
Overhead Ratio

Target = 1.90 (G&A expenses/
direct labor) this month



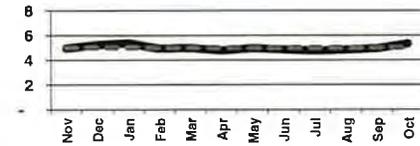
Customer Satisfaction

Target = 90% satisfaction
this month



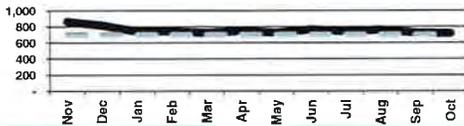
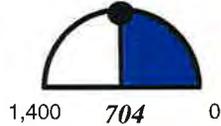
Employee Satisfaction

Target = 5.0 score
this month



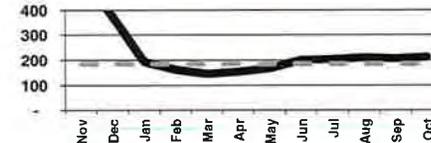
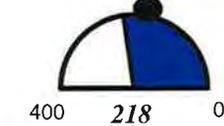
DATS Well Production

Target = 700 Acre Feet
per month



IDP Treated Water

Target = 185 Acre Feet
this month



● 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 in hours 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>	From: November 2011
November 2011	114.50		Thru: October 2012
December 2011	197.10		Goal: 200.00
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		
August 2012	96.30		
September 2012	68.70		
October 2012	130.00		

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. 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.
2. 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>	From: November 2011
November 2011	0		Thru: October 2012
December 2011	0		Goal: 0
January 2012	0		
February 2012	0		
March 2012	0		
April 2012	1.00		
May 2012	1.00		
June 2012	0		
July 2012	0		
August 2012	0		
September 2012	0		
October 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. Information not available at time of reporting.

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	From: November 2011
November 2011	3.83		Thru: October 2012
December 2011	3.84		Goal: 4.95
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		
August 2012	3.27		
September 2012	3.26		
October 2012	Not available		

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. Collections Tech III developed low back pain while using grabber to remove debris from manhole

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	From: November 2011
November 2011	3.00		Thru: October 2012
December 2011	2.00		Goal: 0
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		
August 2012	0		
September 2012	2.00		
October 2012	1.00		

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. Information not available at time of reporting.

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	From: November 2011
November 2011	.08		Thru: October 2012
December 2011	.08		Goal: .08
January 2012	.08		
February 2012	.08		
March 2012	.08		
April 2012	.08		
May 2012	.08		
June 2012	.11		
July 2012	.10		
August 2012	.09		
September 2012	.09		
October 2012	Not available		

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. In order to track this item on a monthly basis, the labor included for the current month is based on the budget.

Current Issues

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	From: November 2011
November 2011	2,186.00	2,196.00	Thru: October 2012
December 2011	2,196.00	2,232.00	Goal: 2,409.00
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	
August 2012	2,250.00	2,346.00	
September 2012	2,268.00	2,333.00	
October 2012	2,392.00	2,409.00	

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 primary factor in the cost exceeding budget for the month of October is several smaller component costs that were not accrued in prior months were paid in October.

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	From: November 2011
November 2011	795.17	858.00	Thru: October 2012
December 2011	657.43	828.00	Goal: 920.00
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	
August 2012	726.00	812.00	
September 2012	866.00	766.00	
October 2012	960.00	920.00	

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). In order to track this item on a monthly basis, the labor included for the current month is based on the budget.

Current Issues

1. None

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> November 2011
November 2011	404.40	468.00	<i>Thru:</i> October 2012
December 2011	517.82	485.00	<i>Goal:</i> 454.00
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	
August 2012	314.00	339.00	
September 2012	297.00	321.00	
October 2012	428.00	454.00	

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 October measure is above budget due to higher than budgeted income at Wood Canyon, Sycamore Canyon, 230 Commerce, and higher revenue at cell site locations.

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> November 2011
November 2011	.95		<i>Thru:</i> October 2012
December 2011	.99		<i>Goal:</i> 1.00
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		
August 2012	1.00		
September 2012	1.20		
October 2012	1.08		

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. The September general and administrative expense spiked due to the allocation of three months worth of the employer portion of PERS that was prepaid in July but not accrued in July and August. Moving forward this cost will be allocated on a monthly basis.

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> November 2011
November 2011	1.00		<i>Thru:</i> October 2012
December 2011	1.81		<i>Goal:</i> 1.90
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	2.00		
August 2012	1.40		
September 2012	2.40		
October 2012	Not available		

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

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: 91%
 Timely: 94%
 Phone: 95%
 Field Contact: 90%

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<u>From:</u> November 2011
November 2011	100.00		<u>Thru:</u> October 2012
December 2011	98.00		<u>Goal:</u> 90.00
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		
August 2012	99.00		
September 2012	97.00		
October 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. 14 surveys were returned of 35 surveys sent (40%). 14 of 35 respondents (100%) rated satisfaction as 5 or 6 on a scale of 1 to 6. In the 12 month period ending October 2012, 105 surveys have been returned of 300 surveys sent (35%). 85 of 105 respondents (81%) rated satisfaction as 5 or 6 on a scale of 1 to 6. 12 month average rating is 5.15%

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> November 2011
November 2011	5.91		<i>Thru:</i> October 2012
December 2011	4.86		<i>Goal:</i> 5.00
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		
August 2012	5.33		
September 2012	5.00		
October 2012	5.64		

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

DATS Well Production

MONTHLY STATUS REPORT

Metric Owner: Tom Roberts Operations Manager

Definition of Measure:

Number of acre-feet of water produced by Dyer Road wells C-8 and C-9 to supply water to the Deep Aquifer Treatment System (DATS).

Method:

Summation of production from wells C-8 and C-9.

Data Collection

Data collected from meters at wells.

Current Issues

1. None

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	From: November 2011
November 2011	759.00	700.00	Thru: October 2012
December 2011	731.00	700.00	Goal: 700.00
January 2012	736.00	700.00	
February 2012	756.00	700.00	
March 2012	689.00	700.00	
April 2012	805.00	700.00	
May 2012	685.00	700.00	
June 2012	802.00	700.00	
July 2012	733.00	700.00	
August 2012	745.00	700.00	
September 2012	703.00	700.00	
October 2012	704.00	700.00	

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

IDP Treated Water

MONTHLY STATUS REPORT

Metric Owner: Tom Roberts Operations Manager

Definition of Measure:

Number of acre-feet of treated water produced by the Irvine Desalter Project (IDP).

Method:

Difference between final effluent volume and discharge to storm drain volume.

Data Collection

Data collected from final effluent and discharge to storm drain meters.

Current Issues

1. None

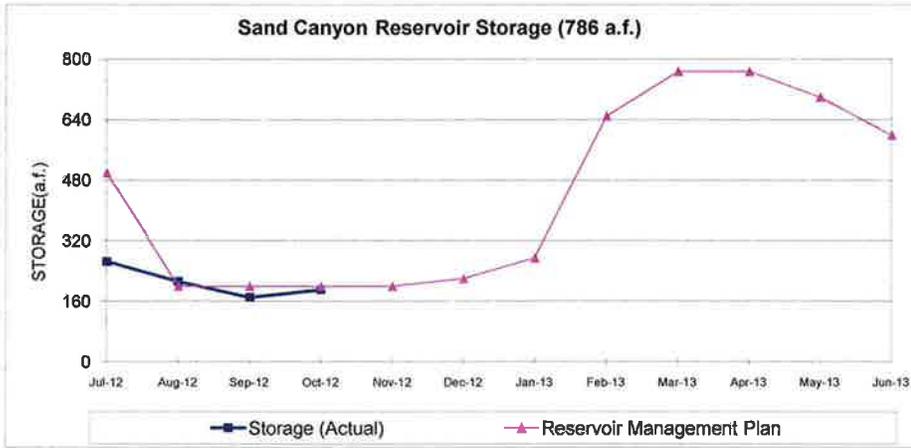
MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	From: November 2011
November 2011	235.00	185.00	Thru: October 2012
December 2011	186.00	185.00	Goal: 185.00
January 2012	162.00	185.00	
February 2012	138.00	185.00	
March 2012	136.00	185.00	
April 2012	187.00	185.00	
May 2012	178.00	185.00	
June 2012	235.00	185.00	
July 2012	200.00	185.00	
August 2012	196.00	185.00	
September 2012	225.00	185.00	
October 2012	218.00	185.00	

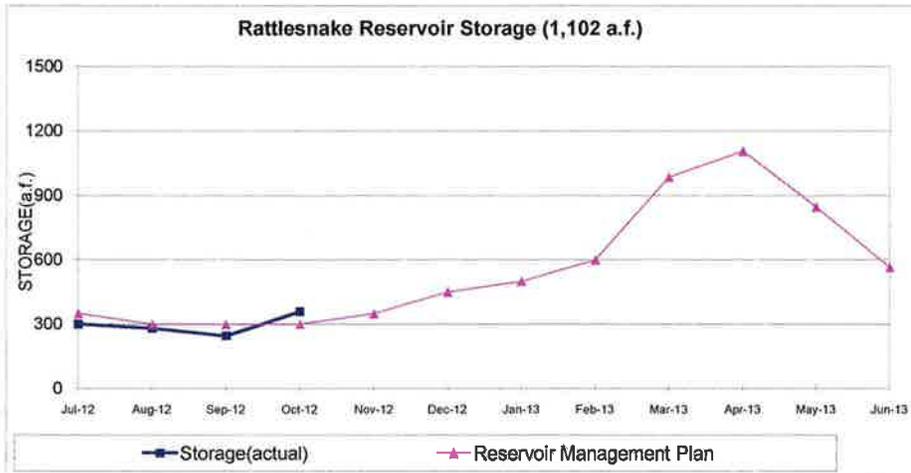
EXHIBIT "B"

DYER ROAD WELL FIELD STATUS							Oct-2012	
Well Number	Production Mo./YTD	Ref. Point Elevation	Depth to Water 10/31/2012	Water Level-MSL	Depth of Bowls	Bowl Setting-MSL	Feet of Water Above Intake	
1	151.7 AF 643.0 AF	34	N/A	N/A	270	-236	N/A	
2	0.0 AF 78.2 AF	37	95	Static -59	270	-234	175	
3	0.5 AF 0.5 AF	55	104	Static -49	215	-160	111	
4	262.4 AF 982.9 AF	38	107	Static -69	216	-178	109	
5	140.7 AF 579.8 AF	48	105	Static -57	290	-242	185	
6	123.7 AF 588.6 AF	43	95	Static -52	250	-207	155	
7	54.1 AF 531.8 AF	40	128	Static -88	290	-250	162	
C-8 DATS	450.3 AF 1,678.0 AF	37	N/A	Static 37	305	-268	305	
C-9 DATS	347.0 AF 1,299.3 AF	23	N/A	Static 23	305	-282	305	
10	288.2 AF 1,370.6 AF	47	118	Static -71	250	-203	132	
11	120.4 AF 167.4 AF	40	118	Static -78	300	-260	182	
12	240.6 AF 844.7 AF	51	123	Static -72	300	-249	177	
13	66.2 AF 340.0 AF	40	115	Static -75	300	-260	185	
14	186.4 AF 753.2 AF	47	121	Static -74	311	-264	190	
15	426.9 AF 1,351.9 AF	44	124	Static -80	300	-256	176	
16	164.0 AF 411.2 AF	47	118	Static -71	280	-233	162	
17	325.6 AF 1,203.1 AF	52	128	Static -77	250	-199	122	
18	219.0 AF 713.7 AF	45	115	Static -70	300	-255	185	
Clear production:	2,770.4 AF for the month							
FYTD:	10,560.6 AF							
DATS production:	797.3 AF for the month							
FYTD:	2,977.3 AF							

RESERVOIR DATA FY 12-13

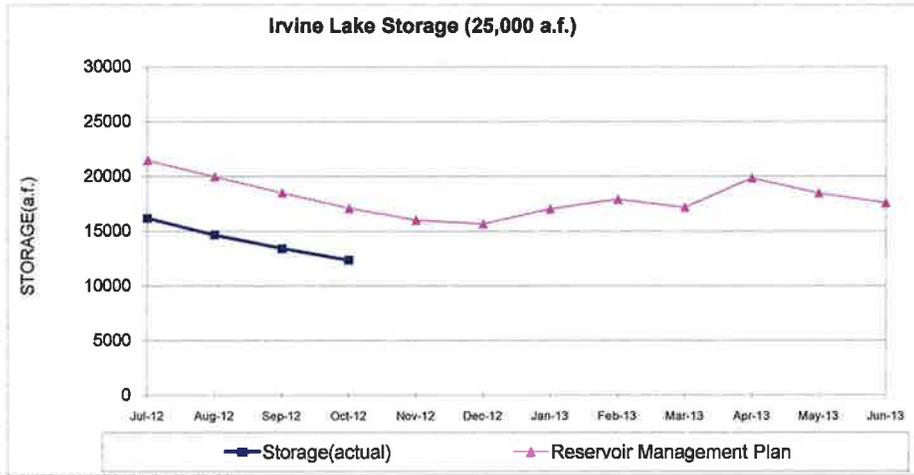


Sand Canyon Reservoir run-off was less than expected.

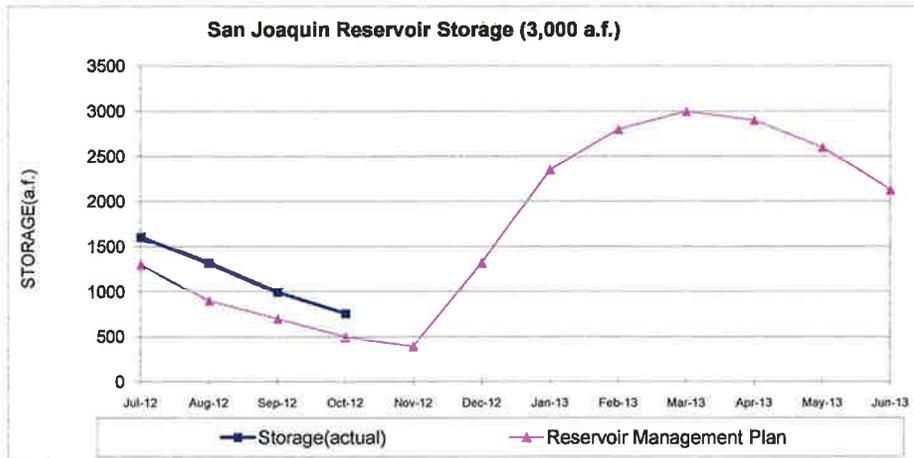


Rattlesnake storage is on track.

RESERVOIR DATA FY 12-13



Irvine Lake storage is on track.



San Joaquin Reservoir storage is on track.

November 26, 2012

Prepared by: Tanja Fournier/Jennifer Davis 

Submitted by: Rob Jacobson 

Approved by: Paul Cook 

CONSENT CALENDAR

OCTOBER 2012 FINANCIAL REPORTS

SUMMARY:

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

- A. The Investment Summary Report for October 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 October 31, 2012, as outlined in Exhibit "B".
- C. The Summary of Payroll ACH payments in the total amount of \$1,333,778.62, as outlined in Exhibit "C".
- D. The October 31, 2012 Disbursement Summary of the tabulation of Warrant Nos. 333641 through 334471, wire transfers, Workers' Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$26,007,371.24, as outlined in Exhibit "D".

FISCAL IMPACTS:

As of October 31, 2012, the book value of the investment portfolio was \$326,470,922, with a 0.40% rate of return and a market value of \$326,757,238. Based on the District's September 30, 2012 quarterly real estate investment rate of return of 10.18%, the District's weighted average return for the fixed income and real estate investments was 2.15%.

As of October 31, 2012, the total notional amount of the interest rate swap portfolio was \$130 million of fixed payer swaps. Cash accrual in October from all swaps was negative \$682,842 and negative \$2,516,022 fiscal year to date.

Payroll ACH payments totaled \$1,333,778.62 and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll and water purchases for October totaled \$26,007,371.24.

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 OCTOBER 2012; APPROVE THE OCTOBER 2012 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$1,333,778.62, AND APPROVE THE OCTOBER 2012 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS NOS. 333641 THROUGH 334471, WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$26,007,371.24.

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

10/31/12

PRICE	SETTLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON	YIELD	YTC	ORIGINAL COST	CARRY VALUE	MARKET VALUE 10/31/2012	UNREALIZED GAIN/(LOSS)(3)
100.13%	10/31/12			11/30/12		LAIF	State of California Tsy.	\$44,000,000		0.358%		\$44,000,000.00	\$44,000,000.00	44,057,819.17	57,819.17
100.13%	10/15/12			11/30/12		LAIF-JPA	State of California Tsy.	50,000,000		0.358%		\$50,000,000.00	\$50,000,000.00	50,065,703.60	65,703.60
100.13%	08/17/12			11/17/12		LAIF BABS	State of California Tsy.	68,981,560		0.358%		\$68,981,560.43	\$68,981,560.43	69,072,207.17	90,646.74
100.00%	10/31/12			11/01/12		B of A Tsy. Reserves	Bank of America	3,587,321		0.009%		3,587,320.50	3,587,320.50	3,587,320.50	
100.69%	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	5,026,299.78	5,034,375.00	8,075.22
100.02%	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	4,994,892.61	5,001,000.00	6,107.39
100.40%	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	5,018,243.75	5,020,100.00	1,856.25
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
100.04%	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	4,998,443.91	5,001,800.00	3,356.09
101.45%	07/11/12	N/A	N/A	02/25/14	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	1.375%	0.301%		5,086,800.00	5,070,004.79	5,072,250.00	2,245.21
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	4,996,576.44	5,002,750.00	6,173.56
101.81%	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	5,079,810.71	5,090,300.00	10,489.29
100.16%	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	5,006,895.06	5,008,200.00	1,304.94
100.04%	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%	0.625%	1.038%	5,000,000.00	5,000,000.00	5,002,200.00	2,200.00
100.38%	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	5,018,592.15	5,019,200.00	607.85
100.38%	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	10,044,142.34	10,038,400.00	(5,742.34)
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	4,997,728.10	5,000,150.00	2,421.90
100.01%	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	4,994,091.95	5,000,300.00	6,208.05
100.22%	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	4,997,950.59	5,010,850.00	12,899.41
100.08%	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	10,001,774.02	10,007,700.00	5,925.98
100.17%	08/28/12	Continuous	08/27/13	08/27/15	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	10,000,000	0.480%	0.480%	0.480%	10,000,000.00	10,000,000.00	10,017,100.00	17,100.00
100.00%	09/17/12	Continuous	09/17/13	09/17/15	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.480%	0.482%	0.482%	4,999,750.00	4,999,760.27	5,000,150.00	389.73
100.00%	09/17/12	Continuous	09/17/13	09/17/15	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.480%	0.455%	0.472%	5,001,250.00	5,001,198.63	5,000,150.00	(1,048.63)
99.89%	09/25/12	Quarterly	09/25/13	09/25/15	Aaa/AA+/NR	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	0.500%	0.470%	0.490%	5,001,500.00	5,001,449.32	4,994,650.00	(6,799.32)
100.00%	09/28/12	Continuous	12/28/12	09/28/15	NA/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.450%	0.470%	0.470%	4,997,000.00	4,997,093.15	5,000,200.00	3,106.85
100.00%	10/17/12	One Time 2yr	10/09/14	10/09/15	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.480%	0.460%	0.466%	5,002,000.00	5,001,972.40	5,000,000.00	(1,972.40)
101.39%	08/23/12	N/A	N/A	06/20/13		CA ST-RANS-A1	State of California	3,500,000	2.500%	0.430%	0.430%	3,559,535.00	3,551,623.37	3,548,615.00	(3,008.37)
SUB-TOTAL								<u>\$300,068,881</u>				<u>\$300,528,265.93</u>	<u>\$300,367,424.29</u>	<u>\$300,653,740.44</u>	<u>\$286,316.14</u>
RESTRICTED CASH (Swap Collateral Deposits)															
100.00%						Collateral Deposit	Citi-Group	\$17,313,497		0.187%		\$17,313,497.44	\$17,313,497.44	17,313,497.44	
100.00%						Collateral Deposit	Merrill Lynch	\$8,790,000		0.187%		\$8,790,000.00	\$8,790,000.00	8,790,000.00	
SUB-TOTAL								<u>\$26,103,497</u>				<u>\$26,103,497.44</u>	<u>\$26,103,497.44</u>	<u>\$26,103,497.44</u>	
TOTAL INVESTMENTS								<u>\$326,172,378</u>				<u>\$326,631,763.37</u>	<u>\$326,470,921.73</u>	<u>\$326,757,237.88</u>	
						Petty Cash						3,300.00			
					Recent Sep Bal	Bank Bal	Bank of America					(5,297,563.29)			
												<u>\$321,337,500.08</u>			

(1) LAIF market value is as of the most recent quarter-end as reported by LAIF.

Security market values are determined using Bank of New York ("Trading Prices"), Bloomberg and/or broker dealer pricing.

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

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

Outstanding Variable Rate Debt	\$364,800,000
Net Outstanding Variable Rate Debt (Less \$130 million fixed-payer swaps)	\$234,800,000
Investment Balance:	\$321,337,500
Investment to Variable Rate Debt Ratio:	137%
Portfolio - Average Number of Days To Maturity	348

	Investment Portfolio	Real Estate Portfolio (3)	Weighted Avg. Return
October	0.40%	10.18%	2.15%
September	0.39%	11.29%	2.16%
Change	0.01%		

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

EXHIBIT "B"

IRVINE RANCH WATER DISTRICT
SUMMARY OF MATURITIES

10/31/12

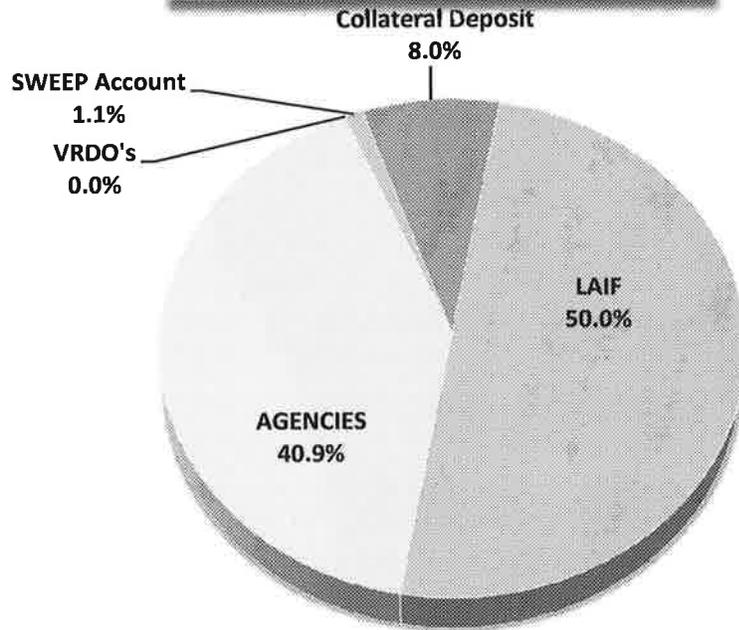
PORTFOLIO \$326,172,378

DATE	TOTAL	%	LAIF	AGENCIES	VRDO	MONEY MARKET SAVINGS & SWEEP	Collateral * Deposit	CAL REV NOTES
10/12	\$29,690,818	9.10%					\$26,103,497	
11/12	\$162,981,560	49.97%	\$162,981,560					
12/12								
1/13								
2/13								
3/13								
04/13	\$5,000,000	1.53%		5,000,000				
05/13								
06/13	\$3,500,000	1.07%						3,500,000
07/13								
8/13								
09/13								
SUB-TOTAL	\$201,172,378	61.68%	\$162,981,560	5,000,000	-	3,587,321	\$26,103,497	\$3,500,000
13 Months - 3 YEARS								
10/1/2013 - 12/31/2013	10,000,000	3.07%		10,000,000				
1/1/2014 - 3/31/2014	\$15,000,000	4.60%		15,000,000				
4/1/2014 - 6/30/2014	\$15,000,000	4.60%		15,000,000				
7/1/2014 - 9/30/2014								
10/1/2014 - 12/31/2014	\$10,000,000	3.07%		10,000,000				
1/1/2015 - 3/31/2015	\$25,000,000	7.66%		25,000,000				
4/1/2015 - 6/30/2015	\$15,000,000	4.60%		15,000,000				
07/1/30/2015 - 9/30/2015	\$30,000,000	9.20%		30,000,000				
10/1/2015 - 12/30/15	\$5,000,000	1.53%		5,000,000				
TOTALS	\$326,172,378	100.00%	\$162,981,560	130,000,000	-	3,587,321	\$26,103,497	\$3,500,000
% OF PORTFOLIO			49.97%	39.86%		1.10%	8.00%	1.07%

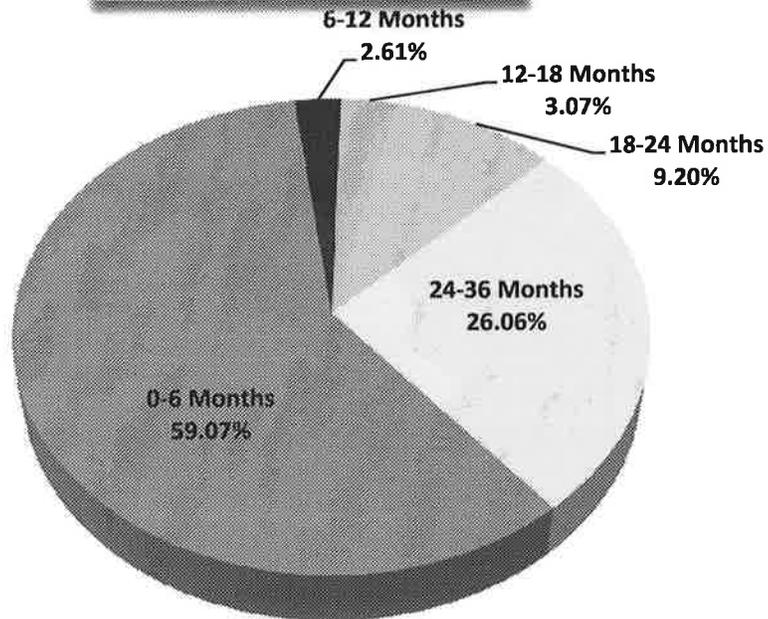
* Return of posted collateral is dependant on interest rates.

October 2012 INVESTMENT PORTFOLIO
As of October 31, 2012

Portfolio by Investment Type



Portfolio by Maturities



Irvine Ranch Water District
 Summary of Real Estate
 9/30/2012

	<u>ACQUISITION DATE</u>	<u>PROPERTY TYPE</u>	<u>OWNERSHIP INTEREST</u>	<u>ORIGINAL COST</u>	<u>RATE OF RETURN QUARTER ENDED Sep-12</u>
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$ 43,550,810	13.03%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$ 6,000,000	8.30%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$ 5,739,845	8.58%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$ 8,630,577	4.12%
Sand Canyon Professional Center	Jul-12	Medical Building	Fee Simple	\$ 8,111,211	3.86%
				<u>\$ 72,032,443</u>	<u>10.18%</u>

IRVINE RANCH WATER DISTRICT
 INVESTMENT SUMMARY REPORT

Joint Powers Agency - Investment Contracts

9/30/2012

Settlement Date	JPA Issue	Investment Contract	Original Cost	Current Par	Market Value 09/30/12
10/25/1994	JPA - Issue #1	AIG Matched Funding Corp. 7.705% Due 2-15-14	\$ 407,878,616	\$ 254,221,200	\$ 254,221,200
10/25/1994	JPA - Issue #2	Federal National Mortgage Assoc. 8.18% Due 2-15-14	\$ 518,644,189	\$ 365,414,156	\$ 398,758,198
			<u>\$ 926,522,805</u>	<u>\$ 619,635,356</u>	<u>\$ 652,979,398</u>

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

MATURITIES/SALES

PURCHASES

DATE	SECURITY TYPE	PAR	YIELD	DATE	SECURITY TYPE	PAR	YIELD
10/17/2012	FHLMC - Note	\$5,000,000	0.80%	10/17/2012	FNMA - Note	\$5,000,000	0.46%

LAIF ACTIVITY

COLLATERALIZED DEPOSIT ACTIVITY

10/05/12	2009A - LAIF	(\$468,883)
10/05/12	2009B - LAIF	(\$468,883)
10/09/12	LAIF	(\$3,500,000)
10/15/12	LAIF	(\$41,792)
10/15/12	LAIF - JPA	(\$44,646)
10/15/12	2009A - LAIF	(\$419)
10/15/12	2009B - LAIF	(\$419)
10/15/12	2010 BAB	\$68,458
10/24/12	LAIF	\$2,500,000
10/31/12	LAIF	(\$5,000,000)
	Increase/(Decrease)	<u>(\$6,956,583)</u>

Balance Forward	\$27,313,333
CITIGROUP	(\$1,209,835)
MERRILL LYNCH	
Balance at 10/31	<u>\$26,103,498</u>

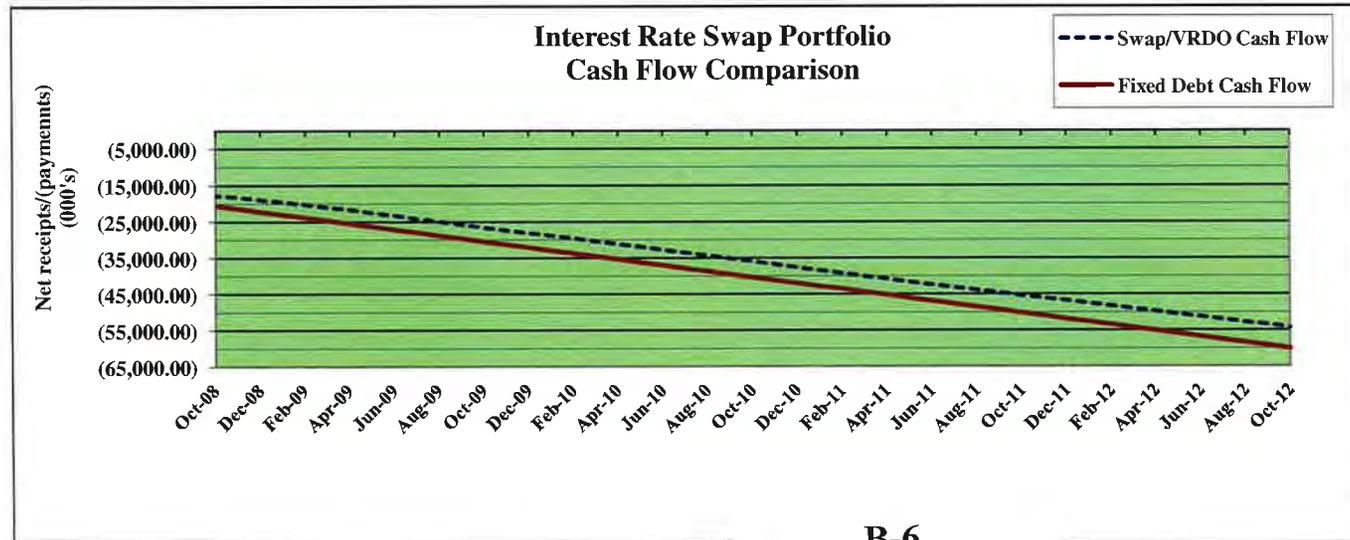
**IRVINE RANCH WATER DISTRICT
INTEREST RATE SWAP MONTHLY SUMMARY REPORT - DETAIL
October 31, 2012**

LIBOR Avg %	Prior Mo.	Current Mo.	12-Mo Avg
	0.22%	0.21%	0.25%

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	
Fixed Payer Swaps - By Effective Date														
6/4/2006	6/4/2019	6.6	ML	\$ 20,000,000	FXP	LIBOR	6.200%	\$ (89,384)	\$ (109,681)	\$ (404,075)	\$ (5,446,922)	\$ 13,315,215	\$ (6,684,785)	
6/4/2006	6/4/2019	6.6	CG	\$ 20,000,000	FXP	LIBOR	6.200%	\$ (89,384)	\$ (109,681)	(404,075)	(5,446,922)	13,310,040	(6,689,960)	
6/17/2006	6/17/2019	6.6	CG	\$ 30,000,000	FXP	LIBOR	6.140%	\$ (132,755)	\$ (162,858)	(600,028)	(8,067,315)	20,046,062	(9,953,938)	
3/10/2007	3/10/2029	16.4	ML	\$ 30,000,000	FXP	LIBOR	5.687%	\$ (122,543)	\$ (150,311)	(553,922)	(7,107,340)	15,339,849	(14,660,151)	
3/10/2007	3/10/2029	16.4	CG	\$ 30,000,000	FXP	LIBOR	5.687%	\$ (122,543)	\$ (150,311)	(553,922)	(7,107,340)	15,288,144	(14,711,856)	
Totals/Weighted Avgs				11.1	\$ 130,000,000		5.949%	\$ (556,609)	\$ (682,842)	\$ (2,516,022)	\$ (33,175,840)	\$ 77,299,310	\$ (52,700,690)	
Total Current Year Active Swaps				\$ 130,000,000				\$ (556,609)	\$ (682,842)	\$ (2,516,022)	\$ (33,175,840)	\$ 77,299,310	\$ (52,700,690)	

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								\$ (556,609)	\$ (682,842)	\$ (2,516,022)	\$ (33,175,840)	\$ 77,299,310	\$ (52,700,690)



Cash Flow Comparison Synthetic Fixed vs. Fixed Rate Debt	
Cash Flow to Date	
Synthetic Fixed =	\$54,263,069
Fixed Rate =	\$60,074,444
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

October
2012

DATE	AMOUNT	VENDOR	PURPOSE
10/5/2012	672,265.25	BANK OF AMERICA	PAYROLL 10/05/12
10/19/2012	661,513.37	BANK OF AMERICA	PAYROLL 10/19/2012
	<u>\$1,333,778.62</u>		

IRWD Ledger Payment Register For 01-OCT-12 To 31-OCT-12 Report Date: 01-NOV-2012 11:23
 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								
333641		01-OCT-12	JCI JONES CHEMICALS INC	CINCINNATI	8,258.25	05-OCT-12	8,258.25	Reconciled
333642		03-OCT-12	NICK L. MAESTAS	LOS ANGELES	1,500.00	03-OCT-12	1,500.00	Reconciled
333643		03-OCT-12	SECOND HARVEST FOOD BANK OF ORANGE COUNTY INC	IRVINE	500.00	09-OCT-12	500.00	Reconciled
333644		04-OCT-12	Cheryl Carter		5.44	10-OCT-12	5.44	Reconciled
333645		04-OCT-12	Frederick Bertsch		79.40	15-OCT-12	79.40	Reconciled
333646		04-OCT-12	Gina Jackson		133.96	09-OCT-12	133.96	Reconciled
333647		04-OCT-12	Gretchen Maswadeh		66.55	10-OCT-12	66.55	Reconciled
333648		04-OCT-12	Janet Irely		29.14	10-OCT-12	29.14	Reconciled
333649		04-OCT-12	Kirsten McLaughlin		119.35	16-OCT-12	119.35	Reconciled
333650		04-OCT-12	A & Y ASPHALT CONTRACTORS INC		7,577.00	12-OCT-12	7,577.00	Reconciled
333651		04-OCT-12	AIRGAS-WEST, INC.		1,466.06	09-OCT-12	1,466.06	Reconciled
333652		04-OCT-12	AMERICAN GROUND WATER TRUST		200.00	10-OCT-12	200.00	Reconciled
333653		04-OCT-12	AMERICAN MESSAGING SERVICES LLC		298.26	09-OCT-12	298.26	Reconciled
333654		04-OCT-12	APPLIED INDUSTRIAL TECHNOLOGIES - CA LLC		137.34	09-OCT-12	137.34	Reconciled
333655		04-OCT-12	AQUA-METRIC SALES COMPANY		3,346.14	09-OCT-12	3,346.14	Reconciled
333656		04-OCT-12	ARCADIS U.S., INC.		22,722.48	12-OCT-12	22,722.48	Reconciled
333657		04-OCT-12	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA		31,774.82			Negotiable
333658		04-OCT-12	AT&T		51.02	09-OCT-12	51.02	Reconciled
333659		04-OCT-12	AT&T		325.94	09-OCT-12	325.94	Reconciled
333660		04-OCT-12	BAILEY, OFELIA		1,200.00	09-OCT-12	1,200.00	Reconciled
333661		04-OCT-12	BALLARD, CARL		1,800.00	12-OCT-12	1,800.00	Reconciled
333662		04-OCT-12	BATTERY SPECIALTIES		235.84	10-OCT-12	235.84	Reconciled
333663		04-OCT-12	BENCH-CRAFT, INC.		1,636.72	12-OCT-12	1,636.72	Reconciled
333664		04-OCT-12	BILL'S SWEEPING SERVICE INC		805.00	05-OCT-12	805.00	Reconciled
333665		04-OCT-12	BIOMAGIC INC		9,751.81	11-OCT-12	9,751.81	Reconciled
333666		04-OCT-12	BLASICK, DIANE		1,080.00	09-OCT-12	1,080.00	Reconciled
333667		04-OCT-12	BORKMAN, CHARLES E		1,500.00	10-OCT-12	1,500.00	Reconciled
333668		04-OCT-12	BORROTO, JORGE		1,740.00	10-OCT-12	1,740.00	Reconciled
333669		04-OCT-12	BRADLEY, CARRIE		1,800.00	09-OCT-12	1,800.00	Reconciled
333670		04-OCT-12	BREITER, JOE		1,800.00	12-OCT-12	1,800.00	Reconciled
333671		04-OCT-12	BRENNTAG PACIFIC INC		7,560.24	15-OCT-12	7,560.24	Reconciled

IRWD Ledger Payment Register For 01-OCT-12 To 31-OCT-12 Report Date: 01-NOV-2012 11:23
 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								
333672		04-OCT-12	C WELLS PIPELINE MATERIALS INC		5,169.85	16-OCT-12	5,169.85	Reconciled
333673		04-OCT-12	CALIFORNIA BARRICADE INC		2,742.50	10-OCT-12	2,742.50	Reconciled
333674		04-OCT-12	CANON BUSINESS SOLUTIONS INC		1,389.97	09-OCT-12	1,389.97	Reconciled
333675		04-OCT-12	CELAYA, MARY		1,800.00	09-OCT-12	1,800.00	Reconciled
333676		04-OCT-12	CHARLES P CROWLEY COMPANY INC		8,586.31	12-OCT-12	8,586.31	Reconciled
333677		04-OCT-12	CHEESMAN, ENRIQUE		1,680.00	24-OCT-12	1,680.00	Reconciled
333678		04-OCT-12	CITY CIRCUIT BREAKERS		188.56	05-OCT-12	188.56	Reconciled
333679		04-OCT-12	CLEARINGHOUSE		528.45	09-OCT-12	528.45	Reconciled
333680		04-OCT-12	COASTAL TRAFFIC SYSTEMS, INC		1,020.00	12-OCT-12	1,020.00	Reconciled
333681		04-OCT-12	COMILLAS, TEOFY E		1,800.00	10-OCT-12	1,800.00	Reconciled
333682		04-OCT-12	COMMERCIAL DOOR OF ORANGE COUNTY, INC.		868.10	11-OCT-12	868.10	Reconciled
333683		04-OCT-12	CONEYBEARE INC		9,087.77	11-OCT-12	9,087.77	Reconciled
333684		04-OCT-12	CORELOGIC INC		48.00	09-OCT-12	48.00	Reconciled
333685		04-OCT-12	COX COMMUNICATIONS		96.55	09-OCT-12	96.55	Reconciled
333686		04-OCT-12	CRIM, RON		1,200.00	12-OCT-12	1,200.00	Reconciled
333687		04-OCT-12	DEAKYNE, SCOTT		750.00	11-OCT-12	750.00	Reconciled
333688		04-OCT-12	DENGER, LOU		1,800.00	09-OCT-12	1,800.00	Reconciled
333689		04-OCT-12	DEPARTMENT OF INDUSTRIAL		450.00	11-OCT-12	450.00	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
			RELATIONS STATE OF CALIFORNIA					
333690	04-OCT-12		DUDEK		2,965.00	12-OCT-12	2,965.00	Reconciled
333691	04-OCT-12		EAST ORANGE COUNTY WATER DISTRICT		3,665.74	09-OCT-12	3,665.74	Reconciled
333692	04-OCT-12		ERVIN, CRAIG J		1,800.00	09-OCT-12	1,800.00	Reconciled
333693	04-OCT-12		EWLES MATERIALS		2,350.00	09-OCT-12	2,350.00	Reconciled
333694	04-OCT-12		EXCHANGE CLUB OF IRVINE		500.00			Negotiable
333695	04-OCT-12		FEDEX		670.16	11-OCT-12	670.16	Reconciled
333696	04-OCT-12		FIDELITY SECURITY LIFE INSURANCE COMPANY		5,670.20	12-OCT-12	5,670.20	Reconciled
333697	04-OCT-12		FORTIS RESOURCE PARTNERS INC		10,539.80	11-OCT-12	10,539.80	Reconciled
333698	04-OCT-12		FRANCHISE TAX BOARD		3,300.00	09-OCT-12	3,300.00	Reconciled
333699	04-OCT-12		FRANCHISE TAX BOARD		350.00	10-OCT-12	350.00	Reconciled

IRWD Ledger Payment Register For 01-OCT-12 To 31-OCT-12 Report Date: 01-NOV-2012 11:23
 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								
333700	04-OCT-12		GEI CONSULTANTS INC		8,560.88	15-OCT-12	8,560.88	Reconciled
333701	04-OCT-12		GEISER, DON		1,800.00	09-OCT-12	1,800.00	Reconciled
333702	04-OCT-12		GEORGE, JAYNE		1,260.00	09-OCT-12	1,260.00	Reconciled
333703	04-OCT-12		GLOBALSTAR INC		169.12	09-OCT-12	169.12	Reconciled
333704	04-OCT-12		GRAINGER		1,320.85	09-OCT-12	1,320.85	Reconciled
333705	04-OCT-12		GRAYBAR ELECTRIC COMPANY		17,098.27	15-OCT-12	17,098.27	Reconciled
333706	04-OCT-12		GRIFFIN DEWATERING CORPORATION		1,908.31	09-OCT-12	1,908.31	Reconciled
333707	04-OCT-12		HABIGER, STEVE		1,800.00	11-OCT-12	1,800.00	Reconciled
333708	04-OCT-12		HARPER & ASSOCIATES ENGINEERING INC		2,750.00	23-OCT-12	2,750.00	Reconciled
333709	04-OCT-12		HASSETT, MARY KAY		1,800.00	10-OCT-12	1,800.00	Reconciled
333710	04-OCT-12		HDR ENGINEERING INC		19,089.56	12-OCT-12	19,089.56	Reconciled
333711	04-OCT-12		HEANEY, DAVID		1,800.00	09-OCT-12	1,800.00	Reconciled
333712	04-OCT-12		HILLEBRECHT, WARREN K		179.56	09-OCT-12	179.56	Reconciled
333713	04-OCT-12		HILLS, JOHN		900.00	09-OCT-12	900.00	Reconciled
333714	04-OCT-12		HOLLIDAY, MARY E		1,200.00	09-OCT-12	1,200.00	Reconciled
333715	04-OCT-12		HOME DEPOT USA INC		1,545.14	17-OCT-12	1,545.14	Reconciled
333716	04-OCT-12		HOPKINS TECHNICAL PRODUCTS INC		2,446.35	09-OCT-12	2,446.35	Reconciled
333717	04-OCT-12		HYDE, JIM		1,800.00	16-OCT-12	1,800.00	Reconciled
333718	04-OCT-12		INDUSTRIAL METAL SUPPLY CO		53.52	09-OCT-12	53.52	Reconciled
333719	04-OCT-12		INTERNAL REVENUE SERVICE		25.00	12-OCT-12	25.00	Reconciled
333720	04-OCT-12		INTERNAL REVENUE SERVICE		1,367.17	11-OCT-12	1,367.17	Reconciled
333721	04-OCT-12		IRVINE COMMUNITY DEVELOPMENT COMPANY		55,690.00	16-OCT-12	55,690.00	Reconciled
333722	04-OCT-12		IRVINE PIPE & SUPPLY INC		759.14	11-OCT-12	759.14	Reconciled
333723	04-OCT-12		JOHANNESSEN, JOHNNIE		1,800.00	09-OCT-12	1,800.00	Reconciled
333724	04-OCT-12		KAMINSKE, ED		600.00	09-OCT-12	600.00	Reconciled
333725	04-OCT-12		KELLY SERVICES INC		1,361.92	09-OCT-12	1,361.92	Reconciled
333726	04-OCT-12		KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES		3,495.00	05-OCT-12	3,495.00	Reconciled
333727	04-OCT-12		KIM, SOON TAE		4,350.00	15-OCT-12	4,350.00	Reconciled
333728	04-OCT-12		KNUTH, MICHAEL C		900.00	09-OCT-12	900.00	Reconciled

IRWD Ledger Payment Register For 01-OCT-12 To 31-OCT-12 Report Date: 01-NOV-2012 11:23
 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								
333729	04-OCT-12		KONVES, JIM		1,560.00	09-OCT-12	1,560.00	Reconciled
333730	04-OCT-12		KS DIRECT LLC		350.19	05-OCT-12	350.19	Reconciled
333731	04-OCT-12		LAGUNA BEACH COUNTY WATER DISTRICT		61,469.23	12-OCT-12	61,469.23	Reconciled
333732	04-OCT-12		LEONARD CHAIDEZ TREE SERVICE		1,265.00	05-OCT-12	1,265.00	Reconciled
333733	04-OCT-12		LOCHRIDGE, DAVID		1,500.00	12-OCT-12	1,500.00	Reconciled

333734	04-OCT-12	LOOMIS, TERRELL	1,560.00	19-OCT-12	1,560.00	Reconciled
333735	04-OCT-12	LYNCH, JAN	1,000.00			Negotiable
333736	04-OCT-12	MACDONALD, BONNIE	1,400.00	09-OCT-12	1,400.00	Reconciled
333737	04-OCT-12	MALCOLM FIRNIE INC	50,425.81	12-OCT-12	50,425.81	Reconciled
333738	04-OCT-12	MARVIN GARDENS LLC	412.65	05-OCT-12	412.65	Reconciled
333739	04-OCT-12	MBC APPLIED ENVIRONMENTAL SCIENCES	1,250.00	05-OCT-12	1,250.00	Reconciled
333740	04-OCT-12	MC FADDEN-DALE INDUSTRIAL	73.43	09-OCT-12	73.43	Reconciled
333741	04-OCT-12	MC MASTER CARR SUPPLY CO	1,875.62	10-OCT-12	1,875.62	Reconciled
333742	04-OCT-12	MISCOWATER	6,442.44	19-OCT-12	6,442.44	Reconciled
333743	04-OCT-12	MOBILE MODULAR MANAGEMENT CORPORATION	1,108.75	10-OCT-12	1,108.75	Reconciled
333744	04-OCT-12	MORALES, JACK	1,320.00			Negotiable
333745	04-OCT-12	NATIONAL READY MIXED CONCRETE CO	1,229.69	09-OCT-12	1,229.69	Reconciled
333746	04-OCT-12	NMG GEOTECHNICAL INC	5,550.30	15-OCT-12	5,550.30	Reconciled
333747	04-OCT-12	OCTA	480.00	09-OCT-12	480.00	Reconciled
333748	04-OCT-12	OLIN CORPORATION	5,070.56	15-OCT-12	5,070.56	Reconciled
333749	04-OCT-12	ON ASSIGNMENT LAB SUPPORT	9,460.48	12-OCT-12	9,460.48	Reconciled
333750	04-OCT-12	ONESOURCE DISTRIBUTORS LLC	1,426.56	09-OCT-12	1,426.56	Reconciled
333751	04-OCT-12	ORANGE COUNTY HOSE	86.26	05-OCT-12	86.26	Reconciled
333752	04-OCT-12	ORANGE COUNTY SANITATION DISTRICT	84,917.49			Voided
333753	04-OCT-12	ORANGE COUNTY SHERIFF'S OFFICE	930.73			Negotiable
333754	04-OCT-12	PACIFIC GAS AND ELECTRIC COMPANY	111.31	11-OCT-12	111.31	Reconciled
333755	04-OCT-12	PALOMARES, JOHN	1,800.00	09-OCT-12	1,800.00	Reconciled
333756	04-OCT-12	PAUL E BRADLEY INC	4,477.50	17-OCT-12	4,477.50	Reconciled
333757	04-OCT-12	PAYNE & FEARS LLP	14,195.26	10-OCT-12	14,195.26	Reconciled

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
333758		04-OCT-12	PERS LONG TERM CARE		1,178.47	10-OCT-12	1,178.47	Reconciled
333759		04-OCT-12	PHAM, BINH T		1,740.00	09-OCT-12	1,740.00	Reconciled
333760		04-OCT-12	PINNACLE LANDSCAPE COMPANY		6,560.00	10-OCT-12	6,560.00	Reconciled
333761		04-OCT-12	POPESCU, LUMINITA		1,560.00	12-OCT-12	1,560.00	Reconciled
333762		04-OCT-12	PRAXAIR DISTRIBUTION INC		1,417.68	10-OCT-12	1,417.68	Reconciled
333763		04-OCT-12	PRINCIPAL LIFE INSURANCE		23,342.23	16-OCT-12	23,342.23	Reconciled
333764		04-OCT-12	PRIORITY MAILING SYSTEMS LLC		162.31	09-OCT-12	162.31	Reconciled
333765		04-OCT-12	PROBOLSKY RESEARCH LLC		7,000.00	10-OCT-12	7,000.00	Reconciled
333766		04-OCT-12	PROVOST & PRITCHARD ENGINEERING GROUP, INC.		2,854.00			Negotiable
333767		04-OCT-12	RAINBOW DISPOSAL CO INC		482.22	09-OCT-12	482.22	Reconciled
333768		04-OCT-12	REACH EMPLOYEE ASSISTANCE INC		798.00	15-OCT-12	798.00	Reconciled
333769		04-OCT-12	REFRIGERATION SUPPLIES		705.78	09-OCT-12	705.78	Reconciled
333770		04-OCT-12	ROBERTS ROOFING INC		16,250.00	10-OCT-12	16,250.00	Reconciled
333771		04-OCT-12	RON TURLEY ASSOCIATES INC		2,400.00	09-OCT-12	2,400.00	Reconciled
333772		04-OCT-12	RRM DESIGN GROUP		2,667.00	09-OCT-12	2,667.00	Reconciled
333773		04-OCT-12	SANCHEZ, AL		1,400.00	15-OCT-12	1,400.00	Reconciled
333774		04-OCT-12	SANTA ANA BLUE PRINT		675.90	12-OCT-12	675.90	Reconciled
333775		04-OCT-12	SANTA ANA CITY OF		19,760.37	17-OCT-12	19,760.37	Reconciled
333776		04-OCT-12	SCHAEFER, TOM		1,740.00	09-OCT-12	1,740.00	Reconciled
333777		04-OCT-12	SCHINDLER ELEVATOR CORPORATION		176.40	09-OCT-12	176.40	Reconciled
333778		04-OCT-12	SHAMROCK SUPPLY CO INC		43.96	05-OCT-12	43.96	Reconciled
333779		04-OCT-12	SKIDMORE GLENN D		1,560.00	09-OCT-12	1,560.00	Reconciled
333780		04-OCT-12	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		743.98	11-OCT-12	743.98	Reconciled
333781		04-OCT-12	SOUTHERN CALIFORNIA EDISON COMPANY		580.00	11-OCT-12	580.00	Reconciled

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
333782		04-OCT-12	SOUTHERN CALIFORNIA EDISON COMPANY		478,731.09	05-OCT-12	478,731.09	Reconciled
333783		04-OCT-12	SOUTHERN CALIFORNIA SECURITY CENTER, INC.		153.10	11-OCT-12	153.10	Reconciled
333784		04-OCT-12	SPARKLETT'S		114.47	11-OCT-12	114.47	Reconciled
333785		04-OCT-12	STANEART, JEFF		1,320.00	11-OCT-12	1,320.00	Reconciled
333786		04-OCT-12	STANTEC CONSULTING SERVICES INC.		1,915.80	09-OCT-12	1,915.80	Reconciled
333787		04-OCT-12	SULTAN, SAID		1,800.00	12-OCT-12	1,800.00	Reconciled
333788		04-OCT-12	SUN-STAR ELECTRIC LP		24,156.08	11-OCT-12	24,156.08	Reconciled
333789		04-OCT-12	SUNDBERG, RANDY		1,800.00	29-OCT-12	1,800.00	Reconciled
333790		04-OCT-12	SYNAGRO SOUTH, LLC		23,555.30	12-OCT-12	23,555.30	Reconciled
333791		04-OCT-12	TAHERI, IRAJ		1,800.00	09-OCT-12	1,800.00	Reconciled
333792		04-OCT-12	TESTAMERICA LABORATORIES, INC		192.15	09-OCT-12	192.15	Reconciled
333793		04-OCT-12	TETRA TECH, INC		43,324.71	12-OCT-12	43,324.71	Reconciled
333794		04-OCT-12	THE PLUMBERS WAREHOUSE		6,099.93	15-OCT-12	6,099.93	Reconciled
333795		04-OCT-12	THOMPSON INDUSTRIAL SUPPLY		3,413.90	09-OCT-12	3,413.90	Reconciled
333796		04-OCT-12	THOMSON, KRIS		1,440.00	17-OCT-12	1,440.00	Reconciled
333797		04-OCT-12	THYSSENKRUPP ELEVATOR		210.87	09-OCT-12	210.87	Reconciled
333798		04-OCT-12	TRIPAC MARKETING INC		1,686.07	05-OCT-12	1,686.07	Reconciled
333799		04-OCT-12	TROPICAL PLAZA NURSERY INC		31,855.16	11-OCT-12	31,855.16	Reconciled
333800		04-OCT-12	TRUGREEN LANDCARE LLC		5,000.00	11-OCT-12	5,000.00	Reconciled
333801		04-OCT-12	TUCKER, TOM		1,800.00	09-OCT-12	1,800.00	Reconciled
333802		04-OCT-12	UEMATSU, PATRICIA		1,080.00	15-OCT-12	1,080.00	Reconciled
333803		04-OCT-12	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA		20.00	09-OCT-12	20.00	Reconciled
333804		04-OCT-12	UNITED PARCEL SERVICE INC		897.33	10-OCT-12	897.33	Reconciled
333805		04-OCT-12	UNITED PARTITION SYSTEMS INC		25,000.00	11-OCT-12	25,000.00	Reconciled
333806		04-OCT-12	UNITED STATES POST OFFICE					

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 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
333807		04-OCT-12	UNITED STATES POSTAL SERVICE		46.15	15-OCT-12	46.15	Reconciled
333808		04-OCT-12	UNIVAR USA INC		9,500.97	15-OCT-12	9,500.97	Reconciled
333809		04-OCT-12	URS CORPORATION		38,120.00	12-OCT-12	38,120.00	Reconciled
333810		04-OCT-12	US BANK NAT'L ASSOCIATION NORTH DAKOTA		88,956.26	15-OCT-12	88,956.26	Reconciled
333811		04-OCT-12	US PEROXIDE LLC		6,087.25	12-OCT-12	6,087.25	Reconciled
333812		04-OCT-12	VA CONSULTING, INC		3,650.00	09-OCT-12	3,650.00	Reconciled
333813		04-OCT-12	VCI TELCOM INC		1,838.00	09-OCT-12	1,838.00	Reconciled
333814		04-OCT-12	VELAZQUEZ, LORETTA		1,800.00	10-OCT-12	1,800.00	Reconciled
333815		04-OCT-12	VERIZON CALIFORNIA INC		227.49	11-OCT-12	227.49	Reconciled
333816		04-OCT-12	VERIZON WIRELESS SERVICES LLC		6,426.26	15-OCT-12	6,426.26	Reconciled
333817		04-OCT-12	VULCAN MATERIALS COMPANY		1,287.79	09-OCT-12	1,287.79	Reconciled
333818		04-OCT-12	W.M. LYLES CO		364,806.15	11-OCT-12	364,806.15	Reconciled
333819		04-OCT-12	WALKER, JOHN		1,800.00	09-OCT-12	1,800.00	Reconciled
333820		04-OCT-12	WALSH, SANDY		1,140.00	09-OCT-12	1,140.00	Reconciled
333821		04-OCT-12	WALTERS WHOLESALE ELECTRIC		641.12	09-OCT-12	641.12	Reconciled
333822		04-OCT-12	WASTE MANAGEMENT OF ORANGE COUNTY		1,632.29	09-OCT-12	1,632.29	Reconciled
333823		04-OCT-12	WECK LABORATORIES INC		570.00	05-OCT-12	570.00	Reconciled
333824		04-OCT-12	WELLS SUPPLY COMPANY		2,483.86	05-OCT-12	2,483.86	Reconciled
333825		04-OCT-12	WEST COAST SAND &		381.91	05-OCT-12	381.91	Reconciled

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333826	04-OCT-12	GRAVEL INC. WESTERN SAFETY PRODUCTS INC		18,538.57	12-OCT-12	18,538.57	Reconciled
333827	04-OCT-12	WESTERN WATER WORKS SUPPLY COMPANY		417.91	05-OCT-12	417.91	Reconciled
333828	05-OCT-12	KPRS CONSTRUCTION BREA SERVICES, INC		345,394.95	09-OCT-12	345,394.95	Reconciled
333829	05-OCT-12	Craig Irely		646.00	12-OCT-12	646.00	Reconciled
333830	05-OCT-12	ALEGRE, EDWARD		49.27	11-OCT-12	49.27	Reconciled
333831	05-OCT-12	BOHAC CONSULTING SERVICES, INC.		2,160.00	15-OCT-12	2,160.00	Reconciled
333832	05-OCT-12	BURTON, DANIELLE		27.47			Negotiable
333833	05-OCT-12	BUSH & ASSOCIATES INC		1,912.00			Negotiable
333834	05-OCT-12	CALIFORNIA BARRICADE INC		650.00	10-OCT-12	650.00	Reconciled

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
333835		05-OCT-12	CANON FINANCIAL SERVICES INC		3,061.42	10-OCT-12	3,061.42	Reconciled
333836		05-OCT-12	CHOI, CAROL		34.17	22-OCT-12	34.17	Reconciled
333837		05-OCT-12	CITY OF ORANGE		231.00	10-OCT-12	231.00	Reconciled
333838		05-OCT-12	CLAUSEN, WENDY		29.25			Negotiable
333839		05-OCT-12	CREW INC		202.44	18-OCT-12	202.44	Reconciled
333840		05-OCT-12	CYPRESS VILLAGE VENETO		11,171.67			Negotiable
333841		05-OCT-12	DOKKO, MIN		72.67	17-OCT-12	72.67	Reconciled
333842		05-OCT-12	DUDEK		9,762.50	12-OCT-12	9,762.50	Reconciled
333843		05-OCT-12	DYSON, ALBERT		290.00	17-OCT-12	290.00	Reconciled
333844		05-OCT-12	ENGIN, LEVENT		31.38			Negotiable
333845		05-OCT-12	EQUIPMENT DIRECT INC		293.25	09-OCT-12	293.25	Reconciled
333846		05-OCT-12	ESA PWA		5,918.15	15-OCT-12	5,918.15	Reconciled
333847		05-OCT-12	FREDKIN, SEAN		224.53	11-OCT-12	224.53	Reconciled
333848		05-OCT-12	FYDAQ		293.75			Negotiable
333849		05-OCT-12	GILSON, MARIA		22.23	10-OCT-12	22.23	Reconciled
333850		05-OCT-12	GUAGLIONE, DOREEN H		26.73			Negotiable
333851		05-OCT-12	HACH COMPANY		1,904.63	10-OCT-12	1,904.63	Reconciled
333852		05-OCT-12	HENDERSON, DANIEL		58.00			Negotiable
333853		05-OCT-12	HOME DEPOT USA INC		60.17	17-OCT-12	60.17	Reconciled
333854		05-OCT-12	HSU, RICHARD		10.12	12-OCT-12	10.12	Reconciled
333855		05-OCT-12	INDUSTRIAL NETWORKING		2,438.37	09-OCT-12	2,438.37	Reconciled
333856		05-OCT-12	IRVINE COMMUNITY DEVELOPMENT		11.11	12-OCT-12	11.11	Reconciled
333857		05-OCT-12	IRVINE COMMUNITY DEVELOPMENT COMPANY		904,759.05			Negotiable
333858		05-OCT-12	IRVINE PACIFIC, LP		98.03	10-OCT-12	98.03	Reconciled
333859		05-OCT-12	IRVINE PIPE & SUPPLY INC		71.72	11-OCT-12	71.72	Reconciled
333860		05-OCT-12	IRWD-PETTY CASH CUSTODIAN		640.61	05-OCT-12	640.61	Reconciled
333861		05-OCT-12	JOHNSON, AMIE		58.85	09-OCT-12	58.85	Reconciled
333862		05-OCT-12	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES		4,225.00	09-OCT-12	4,225.00	Reconciled
333863		05-OCT-12	KISHORE, HEM		807.40			Negotiable
333864		05-OCT-12	KS DIRECT LLC		457.94	09-OCT-12	457.94	Reconciled
333865		05-OCT-12	KULDA, GREGORY P		78.33	12-OCT-12	78.33	Reconciled
333866		05-OCT-12	LEA, SCOTT		36.52	10-OCT-12	36.52	Reconciled
333867		05-OCT-12	LIN, CHIA		270.49	09-OCT-12	270.49	Reconciled
333868		05-OCT-12	LSA ASSOCIATES INC		1,128.75	11-OCT-12	1,128.75	Reconciled

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 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
333869		05-OCT-12	MARKET-THINK LLC		3,900.00	10-OCT-12	3,900.00	Reconciled
333870		05-OCT-12	MORROW-MEADOWS CORPORATION		2,598.95	09-OCT-12	2,598.95	Reconciled
333871		05-OCT-12	NATIONAL READY MIXED CONCRETE CO		340.49	09-OCT-12	340.49	Reconciled
333872		05-OCT-12	PROVOST & PRITCHARD ENGINEERING GROUP, INC.		906.63			Negotiable
333873		05-OCT-12	RAINBOW NUT & BOLT		3,110.04	12-OCT-12	3,110.04	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
333874	05-OCT-12	INC	RANCHO ALISAL APTS		62.84	25-OCT-12	62.84	Reconciled
333875	05-OCT-12		RANCHO MARIPOSA APTS		494.76	25-OCT-12	494.76	Reconciled
333876	05-OCT-12		REED THOMAS CO INC		429.21	10-OCT-12	429.21	Reconciled
333877	05-OCT-12		REED, JAMES D		2,030.89	23-OCT-12	2,030.89	Reconciled
333878	05-OCT-12		REYES, CIRO		29.10	19-OCT-12	29.10	Reconciled
333879	05-OCT-12		RINGCLEAR LLC		58.80	16-OCT-12	58.80	Reconciled
333880	05-OCT-12		SANTA ANA BLUE PRINT		137.42	12-OCT-12	137.42	Reconciled
333881	05-OCT-12		SCHWEPPE, JACK		42.70			Negotiable
333882	05-OCT-12		SHI, JAMES		38.30	18-OCT-12	38.30	Reconciled
333883	05-OCT-12		SILVERWOOD LANDSCAPE		1,038.03			Negotiable
333884	05-OCT-12		SOUTHERN CALIFORNIA EDISON COMPANY		87.84	10-OCT-12	87.84	Reconciled
333885	05-OCT-12		SOUTHERN CALIFORNIA SECURITY CENTER, INC.		482.10	11-OCT-12	482.10	Reconciled
333886	05-OCT-12		SWANILLON INC		855.66	09-OCT-12	855.66	Reconciled
333887	05-OCT-12		TAKADA, SHIGERU		42.91	12-OCT-12	42.91	Reconciled
333888	05-OCT-12		TAYLOR MORRISON		11.73	29-OCT-12	11.73	Reconciled
333889	05-OCT-12		TROPICAL PLAZA NURSERY INC		2,331.44	09-OCT-12	2,331.44	Reconciled
333890	05-OCT-12		TRUGREEN LANDCARE LLC		5,053.89	11-OCT-12	5,053.89	Reconciled
333891	05-OCT-12		UNITED SITE SERVICES OF CALIFORNIA INC		458.48	09-OCT-12	458.48	Reconciled
333892	05-OCT-12		VALENCIC, JOSEPH		455.30	09-OCT-12	455.30	Reconciled
333893	05-OCT-12		VALENTINE, SHAUN		44.48	12-OCT-12	44.48	Reconciled
333894	05-OCT-12		WESTERN DIGITAL CORPORATION		330.97	26-OCT-12	330.97	Reconciled
333895	05-OCT-12		WOO, NANCY		25.59			Negotiable

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
333896	05-OCT-12		WOODSIDE IRVINE HOA		2,032.70	11-OCT-12	2,032.70	Reconciled
333897	08-OCT-12		Franklin Tessers	HOME	110.00	17-OCT-12	110.00	Reconciled
333898	08-OCT-12		NIAGARA CONSERVATION CORP.	FORTH WORTH	18,000.00	15-OCT-12	18,000.00	Reconciled
333899	09-OCT-12		JCI JONES CHEMICALS INC	CINCINNATI	4,770.99	16-OCT-12	4,770.99	Reconciled
333900	11-OCT-12		ORANGE COUNTY SANITATION DISTRICT	FOUNTAIN VALLEY	500.00	11-OCT-12	500.00	Reconciled
333901	11-OCT-12		Casey Hansen		150.84	15-OCT-12	150.84	Reconciled
333902	11-OCT-12		Dale Alberts		11.00	19-OCT-12	11.00	Reconciled
333903	11-OCT-12		David Perez		6.05			Negotiable
333904	11-OCT-12		Douglas Reinhart		511.85	15-OCT-12	511.85	Reconciled
333905	11-OCT-12		Harry Cho		17.60	17-OCT-12	17.60	Reconciled
333906	11-OCT-12		Jacob Moeder		340.00	29-OCT-12	340.00	Reconciled
333907	11-OCT-12		Karen Bonecki		250.00			Negotiable
333908	11-OCT-12		Leslie Bonkowski		194.85	12-OCT-12	194.85	Reconciled
333909	11-OCT-12		Mary Matheis		785.42	16-OCT-12	785.42	Reconciled
333910	11-OCT-12		Noah Fehser		129.33	12-OCT-12	129.33	Reconciled
333911	11-OCT-12		Stephen Donnelly		175.00	16-OCT-12	175.00	Reconciled
333912	11-OCT-12		Tanja Fournier		142.77	12-OCT-12	142.77	Reconciled
333913	11-OCT-12		Thomas Bonkowski		27.61	12-OCT-12	27.61	Reconciled
333914	11-OCT-12		40 TESLA LLC		6,588.29			Negotiable
333915	11-OCT-12		ACTION ELECTRIC CORP		264.46	15-OCT-12	264.46	Reconciled
333916	11-OCT-12		ADS LLC		1,936.50	15-OCT-12	1,936.50	Reconciled
333917	11-OCT-12		ADVANTAGE TENNIS ACADEMY		35.10	18-OCT-12	35.10	Reconciled
333918	11-OCT-12		ATRIGAS-WEST, INC.		395.70	15-OCT-12	395.70	Reconciled
333919	11-OCT-12		AL HAKEEM, MAZIMAZIN		80.58			Negotiable
333920	11-OCT-12		ALEXANDER CONTRACT SERVICES INC		99,982.74	17-OCT-12	99,982.74	Reconciled
333921	11-OCT-12		ALMETEK INDUSTRIES, INC		1,080.90	16-OCT-12	1,080.90	Reconciled
333922	11-OCT-12		ANDERSEN, MOLLY		22.14	22-OCT-12	22.14	Reconciled
333923	11-OCT-12		AQUA BEN CORPORATION		29,813.35	16-OCT-12	29,813.35	Reconciled
333924	11-OCT-12		AQUFLOW		2,290.77	17-OCT-12	2,290.77	Reconciled
333925	11-OCT-12		AT&T		2,927.69	16-OCT-12	2,927.69	Reconciled
333926	11-OCT-12		AT&T		1,886.83	15-OCT-12	1,886.83	Reconciled
333927	11-OCT-12		ATECH ENGINEERING & MFG INC		484.88	17-OCT-12	484.88	Reconciled
333928	11-OCT-12		AUSTIN, DENNIS B		358.12			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
Payment Document : IRWD CHECK								
333929		11-OCT-12	AZTEC TECHNOLOGY CORPORATION		3,213.11	15-OCT-12	3,213.11	Reconciled
333930		11-OCT-12	BAE, HYEON S		50.56	24-OCT-12	50.56	Reconciled
333931		11-OCT-12	BDC SPECIAL WASTE		200.00	15-OCT-12	200.00	Reconciled
333932		11-OCT-12	BEAMAN CONCRETE PUMPING		250.00			Negotiable
333933		11-OCT-12	BEESON, BRIDIE		31.38			Negotiable
333934		11-OCT-12	BORCHARD SURVEYING & MAPPING, INC.		4,670.00			Negotiable
333935		11-OCT-12	BUTLER ENGINEERING INC		18,666.00	16-OCT-12	18,666.00	Reconciled
333936		11-OCT-12	C WELLS PIPELINE MATERIALS INC		19,807.72	25-OCT-12	19,807.72	Reconciled
333937		11-OCT-12	CAGE, MICHAEL		115.42	18-OCT-12	115.42	Reconciled
333938		11-OCT-12	CAL WATER PURIFICATION		240.00	15-OCT-12	240.00	Reconciled
333939		11-OCT-12	CALIFORNIA DEPT OF PUBLIC HEALTH		22,477.95	19-OCT-12	22,477.95	Reconciled
333940		11-OCT-12	CALIFORNIA PACIFIC HOMES		615.78	17-OCT-12	615.78	Reconciled
333941		11-OCT-12	CANON FINANCIAL SERVICES INC		4,028.78	15-OCT-12	4,028.78	Reconciled
333942		11-OCT-12	CDW GOVERNMENT LLC		1,909.59	17-OCT-12	1,909.59	Reconciled
333943		11-OCT-12	CHEN, HSIU		40.00			Negotiable
333944		11-OCT-12	CHO DESIGN ASSOCIATES, INC		1,485.00	26-OCT-12	1,485.00	Reconciled
333945		11-OCT-12	CHOI, SEOMIN		63.62	15-OCT-12	63.62	Reconciled
333946		11-OCT-12	CITY OF IRVINE		2,835.74	15-OCT-12	2,835.74	Reconciled
333947		11-OCT-12	CLEAN ENERGY FUELS		928.31	17-OCT-12	928.31	Reconciled
333948		11-OCT-12	COASTAL TRAFFIC SYSTEMS, INC		510.00	17-OCT-12	510.00	Reconciled
333949		11-OCT-12	CONEYBEARE INC		2,602.70	15-OCT-12	2,602.70	Reconciled
333950		11-OCT-12	COOPER, LETICIA		50.00			Negotiable
333951		11-OCT-12	CPWH		17.93	16-OCT-12	17.93	Reconciled
333952		11-OCT-12	D & H WATER SYSTEMS INC.		14,427.30	22-OCT-12	14,427.30	Reconciled
333953		11-OCT-12	David Chaney		665.86	18-OCT-12	665.86	Reconciled
333954		11-OCT-12	DCSE INC		10,140.00	16-OCT-12	10,140.00	Reconciled
333955		11-OCT-12	DDB ENGINEERING, INC.		2,145.00	12-OCT-12	2,145.00	Reconciled
333956		11-OCT-12	DENNISON, MARK		29.23	15-OCT-12	29.23	Reconciled
333957		11-OCT-12	DWYER INSTRUMENTS INC		4,359.76	15-OCT-12	4,359.76	Reconciled
333958		11-OCT-12	ENVIRON INTERNATIONAL CORP.		20,427.26	18-OCT-12	20,427.26	Reconciled

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 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar) Page: 12
 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								
333959		11-OCT-12	ERICKSON, SUSAN		23.11	26-OCT-12	23.11	Reconciled
333960		11-OCT-12	EVANS-HYDRO INC		6,417.38	19-OCT-12	6,417.38	Reconciled
333961		11-OCT-12	EXPRESSAIR		120.60	16-OCT-12	120.60	Reconciled
333962		11-OCT-12	FARRELL & ASSOCIATES		172.90	12-OCT-12	172.90	Reconciled
333963		11-OCT-12	FEDEX		506.58	17-OCT-12	506.58	Reconciled
333964		11-OCT-12	FIRST CHOICE SERVICES		270.68	16-OCT-12	270.68	Reconciled
333965		11-OCT-12	FISHER SCIENTIFIC COMPANY LLC		1,937.14	15-OCT-12	1,937.14	Reconciled
333966		11-OCT-12	FISHNET SECURITY INC		7,496.33	19-OCT-12	7,496.33	Reconciled
333967		11-OCT-12	FIVE POINT PARTNERS LLC		35,927.42	19-OCT-12	35,927.42	Reconciled
333968		11-OCT-12	FLOGERZI, JEFF		28.32	22-OCT-12	28.32	Reconciled
333969		11-OCT-12	FLUKE CORPORATION		1,152.00	15-OCT-12	1,152.00	Reconciled
333970		11-OCT-12	FORTIS RESOURCE PARTNERS INC		5,008.00	17-OCT-12	5,008.00	Reconciled
333971		11-OCT-12	GIBSON, FRANK		27.47	17-OCT-12	27.47	Reconciled
333972		11-OCT-12	GJ AUTOMOTIVE EQUIPMENT CO INC		2,000.00	12-OCT-12	2,000.00	Reconciled
333973		11-OCT-12	GOLBONI, EIMIRA		67.07			Negotiable
333974		11-OCT-12	GONZALEZ, NADIA		19.34			Negotiable
333975		11-OCT-12	GRANT, BRITTANY		31.71			Negotiable
333976		11-OCT-12	GRAPHIC CONTROLS LLC		214.08	16-OCT-12	214.08	Reconciled
333977		11-OCT-12	GROSS, MARIO		49.22			Negotiable
333978		11-OCT-12	HACH COMPANY		199.23	15-OCT-12	199.23	Reconciled
333979		11-OCT-12	HAMILTON, MATTHEW		30.34	18-OCT-12	30.34	Reconciled
333980		11-OCT-12	HARPER &		2,925.00	23-OCT-12	2,925.00	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
			ASSOCIATES ENGINEERING INC					
333981		11-OCT-12	HARSH, MOLLY		21.23			Negotiable
333982		11-OCT-12	HELTON, BENI		63.46			Negotiable
333983		11-OCT-12	HEWITT ASSOCIATES LLC		3,432.00	16-OCT-12	3,432.00	Reconciled
333984		11-OCT-12	HILL BROTHERS CHEMICAL COMPANY		25,899.58	16-OCT-12	25,899.58	Reconciled
333985		11-OCT-12	HODGES, CHAD		38.16	16-OCT-12	38.16	Reconciled
333986		11-OCT-12	HOGAN, THOMAS		44.36			Negotiable
333987		11-OCT-12	HOLM, STEPHEN		35.02	24-OCT-12	35.02	Reconciled
333988		11-OCT-12	HOME DEPOT USA INC		887.32	22-OCT-12	887.32	Reconciled
333989		11-OCT-12	HOPKINS TECHNICAL PRODUCTS INC		2,202.38	16-OCT-12	2,202.38	Reconciled
333990		11-OCT-12	HOSHI, MASAHIRO		47.38	22-OCT-12	47.38	Reconciled
333991		11-OCT-12	HSIEH, ALBERT		26.50	17-OCT-12	26.50	Reconciled

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
333992		11-OCT-12	HUNSAKER & ASSOCIATES IRVINE		1,807.32	16-OCT-12	1,807.32	Reconciled
333993		11-OCT-12	I BASE T		90.57	15-OCT-12	90.57	Reconciled
333994		11-OCT-12	IBM CORPORATION		12,297.00	17-OCT-12	12,297.00	Reconciled
333995		11-OCT-12	INSTANT JUNGLE INTL		965.70	12-OCT-12	965.70	Reconciled
333996		11-OCT-12	IRON MOUNTAIN INFORMATION MANAGEMENT INC		1,611.63	16-OCT-12	1,611.63	Reconciled
333997		11-OCT-12	IRVINE PIPE & SUPPLY INC		4,640.11	18-OCT-12	4,640.11	Reconciled
333998		11-OCT-12	KELLY SERVICES INC		1,532.16	15-OCT-12	1,532.16	Reconciled
333999		11-OCT-12	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES		450.00	12-OCT-12	450.00	Reconciled
334000		11-OCT-12	KIM, YONG (ACCT 16042094066)		74.92			Negotiable
334001		11-OCT-12	KO, MINGTE		23.11			Negotiable
334002		11-OCT-12	KO, TOM R		96.40			Negotiable
334003		11-OCT-12	LCS TECHNOLOGIES, INC.		4,000.00	18-OCT-12	4,000.00	Reconciled
334004		11-OCT-12	LEONARD CHAIDEZ TREE SERVICE		1,650.00	12-OCT-12	1,650.00	Reconciled
334005		11-OCT-12	LIN, JESSE		32.62	22-OCT-12	32.62	Reconciled
334006		11-OCT-12	LOCHRIDGE, DAVID		1,080.00	15-OCT-12	1,080.00	Reconciled
334007		11-OCT-12	MAYNIGO, MARLO		30.80			Negotiable
334008		11-OCT-12	MC MASTER CARR SUPPLY CO		1,204.05	16-OCT-12	1,204.05	Reconciled
334009		11-OCT-12	MEADERS, LAURA		25.46	29-OCT-12	25.46	Reconciled
334010		11-OCT-12	MERCHANTS LANDSCAPE SERVICES INC		7,280.00	16-OCT-12	7,280.00	Reconciled
334011		11-OCT-12	MERIDETH, TAHNEE		15.88	12-OCT-12	15.88	Reconciled
334012		11-OCT-12	Michelle Klein		878.17	15-OCT-12	878.17	Reconciled
334013		11-OCT-12	MOYMIHAN, AARON		30.80			Negotiable
334014		11-OCT-12	MYERS & SONS HI-WAY SAFETY, INC.		2,960.97	12-OCT-12	2,960.97	Reconciled
334015		11-OCT-12	NAKAZAWA, YOICHI		27.95	19-OCT-12	27.95	Reconciled
334016		11-OCT-12	NATURES IMAGE INC		3,229.21	15-OCT-12	3,229.21	Reconciled
334017		11-OCT-12	NG, PAULINE		31.96	16-OCT-12	31.96	Reconciled
334018		11-OCT-12	NGO, HANG		27.08	15-OCT-12	27.08	Reconciled
334019		11-OCT-12	NGUYEN, DENNIS		18.55	18-OCT-12	18.55	Reconciled
334020		11-OCT-12	NGUYEN, MICHAEL		35.00	17-OCT-12	35.00	Reconciled
334021		11-OCT-12	NINYO & MOORE		11,341.00	17-OCT-12	11,341.00	Reconciled
334022		11-OCT-12	NMG GEOTECHNICAL INC		12,989.40	19-OCT-12	12,989.40	Reconciled

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
334023		11-OCT-12	O'HAREN GOVERNMENT RELATIONS		6,515.30	19-OCT-12	6,515.30	Reconciled
334024		11-OCT-12	OLEGGINI, CATHERINE		24.93			Negotiable
334025		11-OCT-12	OLIN CORPORATION		7,534.99	18-OCT-12	7,534.99	Reconciled
334026		11-OCT-12	ON ASSIGNMENT LAB SUPPORT		8,713.60	18-OCT-12	8,713.60	Reconciled
334027		11-OCT-12	ORANGE COUNTY VECTOR CONTROL DISTRICT		705.90	29-OCT-12	705.90	Reconciled
334028		11-OCT-12	PAPER DEPOT		775.86	12-OCT-12	775.86	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
			DOCUMENT DESTRUCTION LLC					
334029		11-OCT-12	PARKHOUSE TIRE INC		3,607.32	16-OCT-12	3,607.32	Reconciled
334030		11-OCT-12	PENG, JESSICA		20.20	15-OCT-12	20.20	Reconciled
334031		11-OCT-12	PLUMBERS DEPOT INC.		140.55	15-OCT-12	140.55	Reconciled
334032		11-OCT-12	PORRAS, GIOVANA		39.27			Negotiable
334033		11-OCT-12	POWERTRON BATTERY		153.01	22-OCT-12	153.01	Reconciled
334034		11-OCT-12	PRUDENTIAL OVERALL SUPPLY		4,940.97	15-OCT-12	4,940.97	Reconciled
334035		11-OCT-12	QUALITY ENVIRONMENTAL CONTAINERS		2,947.71	16-OCT-12	2,947.71	Reconciled
334036		11-OCT-12	RAD, AZAD		36.96			Negotiable
334037		11-OCT-12	RAHIMIAN, SHAHRAN		29.93			Negotiable
334038		11-OCT-12	SAN REMO APTS		28.32	26-OCT-12	28.32	Reconciled
334039		11-OCT-12	SANDERS PAVING INC		4,542.00	19-OCT-12	4,542.00	Reconciled
334040		11-OCT-12	SANTIAGO AQUEDUCT COMMISSION		8,476.71	19-OCT-12	8,476.71	Reconciled
334041		11-OCT-12	SHELLHASE, TANNAZ		25.84			Negotiable
334042		11-OCT-12	SCOTT HEALTH & SAFETY		7.23	17-OCT-12	7.23	Reconciled
334043		11-OCT-12	SEAL ANALYTICAL INC		928.50	15-OCT-12	928.50	Reconciled
334044		11-OCT-12	SIEMENS INDUSTRY INC		1,882.80	15-OCT-12	1,882.80	Reconciled
334045		11-OCT-12	SIGMA-ALDRICH INC		194.08	15-OCT-12	194.08	Reconciled
334046		11-OCT-12	SNYDER LANGSTON L.P.		32,023.25	17-OCT-12	32,023.25	Reconciled
334047		11-OCT-12	SOUTH COAST ANSWERING SERVICE		676.87	16-OCT-12	676.87	Reconciled
334048		11-OCT-12	SOUTH COAST WATER CO.		151.66	15-OCT-12	151.66	Reconciled

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
334049		11-OCT-12	SOUTHERN CALIFORNIA EDISON COMPANY		9,541.61	16-OCT-12	9,541.61	Reconciled
334050		11-OCT-12	SOUTHERN COUNTIES LUBRICANTS LLC		2,041.01	12-OCT-12	2,041.01	Reconciled
334051		11-OCT-12	SPONER, MATTHEW		46.05			Negotiable
334052		11-OCT-12	SUE, LAN		33.20	16-OCT-12	33.20	Reconciled
334053		11-OCT-12	SYNAGRO SOUTH, LLC		21,262.91	18-OCT-12	21,262.91	Reconciled
334054		11-OCT-12	TAYLOR MORRISON		32.68	29-OCT-12	32.68	Reconciled
334055		11-OCT-12	TETRA TECH, INC		8,075.81	18-OCT-12	8,075.81	Reconciled
334056		11-OCT-12	TRAK OUT		818.27	18-OCT-12	818.27	Reconciled
334057		11-OCT-12	TRITT, WILLIAM		26.50	22-OCT-12	26.50	Reconciled
334058		11-OCT-12	TROPICAL PLAZA NURSERY INC		1,188.08	12-OCT-12	1,188.08	Reconciled
334059		11-OCT-12	TRUONG, ANTHONY		45.58			Negotiable
334060		11-OCT-12	UNITED PARCEL SERVICE INC		40.21	15-OCT-12	40.21	Reconciled
334061		11-OCT-12	URS CORPORATION		5,825.00	17-OCT-12	5,825.00	Reconciled
334062		11-OCT-12	USA BLUEBOOK		158.88	18-OCT-12	158.88	Reconciled
334063		11-OCT-12	VORTEX INDUSTRIES INC		149.95	15-OCT-12	149.95	Reconciled
334064		11-OCT-12	WALIA, ADHAR		44.16	16-OCT-12	44.16	Reconciled
334065		11-OCT-12	WASTE MANAGEMENT OF ORANGE COUNTY		1,517.83	15-OCT-12	1,517.83	Reconciled
334066		11-OCT-12	WATERLINE TECHNOLOGIES INC		4,440.00	16-OCT-12	4,440.00	Reconciled
334067		11-OCT-12	WAXIE'S ENTERPRISES, INC		653.99	15-OCT-12	653.99	Reconciled
334068		11-OCT-12	WECK LABORATORIES INC		230.00	12-OCT-12	230.00	Reconciled
334069		11-OCT-12	WEI, AO-CHIU		23.04	22-OCT-12	23.04	Reconciled
334070		11-OCT-12	WEST COAST REO		33.99	15-OCT-12	33.99	Reconciled
334071		11-OCT-12	WEST COAST SAND & GRAVEL INC.		898.12	12-OCT-12	898.12	Reconciled
334072		11-OCT-12	WESTERN EXTERMINATOR COMPANY		999.00	19-OCT-12	999.00	Reconciled
334073		11-OCT-12	WESTERN SAFETY PRODUCTS INC		1,107.90	17-OCT-12	1,107.90	Reconciled
334074		11-OCT-12	WESTERN WATER WORKS SUPPLY COMPANY		244.94	12-OCT-12	244.94	Reconciled
334075		11-OCT-12	WILLIAM LYON HOMES		26.95			Negotiable
334076		11-OCT-12	WILLIAMS, KELLY		69.89			Negotiable
334077		11-OCT-12	WIRELESS WATCHDOGS LLC		984.00	26-OCT-12	984.00	Reconciled

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
334078		11-OCT-12	WONG, BRENDA		52.29			Negotiable
334079		11-OCT-12	WONG, CATHY		30.92	15-OCT-12	30.92	Reconciled
334080		11-OCT-12	WU, TOM (ACCT 16104364092)		61.79			Negotiable
334081		11-OCT-12	YEE, KAREN		57.15	15-OCT-12	57.15	Reconciled
334082		11-OCT-12	YOUSSEF, ALI		41.00			Negotiable
334083		11-OCT-12	YSI INCORPORATED		496.10	15-OCT-12	496.10	Reconciled
334084		11-OCT-12	Cheryl Kelly	HOME	130.90	12-OCT-12	130.90	Reconciled
334085		11-OCT-12	AQUA-METRIC SALES COMPANY		544.03	16-OCT-12	544.03	Reconciled
334086		11-OCT-12	ARCADIS U.S., INC.		3,836.00	15-OCT-12	3,836.00	Reconciled
334087		11-OCT-12	ARMORCAST PRODUCTS COMPANY		18,930.31	17-OCT-12	18,930.31	Reconciled
334088		11-OCT-12	BRENNTAG PACIFIC INC		872.78	15-OCT-12	872.78	Reconciled
334089		11-OCT-12	CNC ENGINEERING, INC		5,390.00	17-OCT-12	5,390.00	Reconciled
334090		11-OCT-12	HOME DEPOT USA INC		667.34	22-OCT-12	667.34	Reconciled
334091		11-OCT-12	OLIN CORPORATION		2,736.54	15-OCT-12	2,736.54	Reconciled
334092		11-OCT-12	ORANGE COUNTY FIRE PROTECTION		4,419.38	12-OCT-12	4,419.38	Reconciled
334093		11-OCT-12	RBF CONSULTING		2,575.00	17-OCT-12	2,575.00	Reconciled
334094		11-OCT-12	SANTA ANA BLUE PRINT		814.59	18-OCT-12	814.59	Reconciled
334095		18-OCT-12	ORANGE COUNTY TREASURER	SANTA ANA 3	100.00	23-OCT-12	100.00	Reconciled
334096		18-OCT-12	Alexander Tang		125.00	18-OCT-12	125.00	Reconciled
334097		18-OCT-12	Anita Arant		25.36			Negotiable
334098		18-OCT-12	Bernardino Ordonez		123.90			Negotiable
334099		18-OCT-12	Cesar Perez		29.90			Negotiable
334100		18-OCT-12	David Chaney		75.00	23-OCT-12	75.00	Reconciled
334101		18-OCT-12	David Paulson		37.95	22-OCT-12	37.95	Reconciled
334102		18-OCT-12	David Pedersen		169.00	19-OCT-12	169.00	Reconciled
334103		18-OCT-12	Didene Martin		225.00	26-OCT-12	225.00	Reconciled
334104		18-OCT-12	Jason Tran		209.48	19-OCT-12	209.48	Reconciled
334105		18-OCT-12	Jeffrey Dugan		334.02	19-OCT-12	334.02	Reconciled
334106		18-OCT-12	John Hayes		155.00	19-OCT-12	155.00	Reconciled
334107		18-OCT-12	Kenneth Drake		220.00	25-OCT-12	220.00	Reconciled
334108		18-OCT-12	Kenneth Erwin		70.81	23-OCT-12	70.81	Reconciled
334109		18-OCT-12	Mark Nelson		23.10			Negotiable
334110		18-OCT-12	Mattias Velardes		340.21	19-OCT-12	340.21	Reconciled
334111		18-OCT-12	Ricky Perry		744.51	23-OCT-12	744.51	Reconciled
334112		18-OCT-12	3M COMPANY		125.59			Negotiable
334113		18-OCT-12	AARP HEALTH CARE OPTIONS		210.92	24-OCT-12	210.92	Reconciled

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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								
334114		18-OCT-12	ACTION ELECTRIC CORP		1,671.19	19-OCT-12	1,671.19	Reconciled
334115		18-OCT-12	ADT SECURITY SERVICES INC		359.84	23-OCT-12	359.84	Reconciled
334116		18-OCT-12	AGILENT TECHNOLOGIES, INC.		1,305.31	22-OCT-12	1,305.31	Reconciled
334117		18-OCT-12	AIRGAS-WEST, INC.		1,365.28	22-OCT-12	1,365.28	Reconciled
334118		18-OCT-12	ALCORN FENCE COMPANY		2,430.00	22-OCT-12	2,430.00	Reconciled
334119		18-OCT-12	ALHAMBRA FOUNDRY CO LTD		2,235.81	19-OCT-12	2,235.81	Reconciled
334120		18-OCT-12	ANTHEM BLUE CROSS		388.80	24-OCT-12	388.80	Reconciled
334121		18-OCT-12	ASSOCIATED POWER INC		1,966.07	19-OCT-12	1,966.07	Reconciled
334122		18-OCT-12	AT&T		48.12	23-OCT-12	48.12	Reconciled
334123		18-OCT-12	AT&T		31.55	22-OCT-12	31.55	Reconciled
334124		18-OCT-12	AT&T		8,923.75	25-OCT-12	8,923.75	Reconciled
334125		18-OCT-12	BCGR		770.00	19-OCT-12	770.00	Reconciled
334126		18-OCT-12	BEILHARZ, WILLIAM		195.00	26-OCT-12	195.00	Reconciled
334127		18-OCT-12	BIOMAGIC INC		12,102.16	24-OCT-12	12,102.16	Reconciled
334128		18-OCT-12	BIOMERIEUX INC		474.56	22-OCT-12	474.56	Reconciled
334129		18-OCT-12	BRENNTAG PACIFIC INC		8,028.20	25-OCT-12	8,028.20	Reconciled
334130		18-OCT-12	BRITHINEE ELECTRIC		1,160.94	22-OCT-12	1,160.94	Reconciled
334131		18-OCT-12	BTF PRECISE MICROBIOLOGY INC.		524.10	23-OCT-12	524.10	Reconciled
334132		18-OCT-12	C E FRY CONSTRUCTION CO INC		842.60	22-OCT-12	842.60	Reconciled
334133		18-OCT-12	C WELLS PIPELINE MATERIALS INC		9,804.19			Negotiable
334134		18-OCT-12	CALIFORNIA BARRICADE INC		6,455.04	26-OCT-12	6,455.04	Reconciled

334135	18-OCT-12	CAPTIVE AUDIENCE MARKETING INC.	85.12	24-OCT-12	85.12	Reconciled
334136	18-OCT-12	CITIGROUP GLOBAL MARKETS INC.	3,751.64	25-OCT-12	3,751.64	Reconciled
334137	18-OCT-12	CITY OF TUSTIN	228,291.29	23-OCT-12	228,291.29	Reconciled
334138	18-OCT-12	CIVILSOURCE, INC.	27,128.25	25-OCT-12	27,128.25	Reconciled
334139	18-OCT-12	CIA-VAL COMPANY	7,852.63	23-OCT-12	7,852.63	Reconciled
334140	18-OCT-12	COAST PLUMBING HEATING AND AIR, INC	59.95	22-OCT-12	59.95	Reconciled
334141	18-OCT-12	COMMERCIAL COATING RESOURCE INC	11,250.00	29-OCT-12	11,250.00	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 18
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
334142		18-OCT-12	CONDITION MONITORING SERVICES INC		5,894.25	26-OCT-12	5,894.25	Reconciled
334143		18-OCT-12	CONEYBEARE INC		8,559.52	24-OCT-12	8,559.52	Reconciled
334144		18-OCT-12	CONTROLLED KEY SYSTEMS INC		26,263.45	24-OCT-12	26,263.45	Reconciled
334145		18-OCT-12	CR & R INCORPORATED		12.20	24-OCT-12	12.20	Reconciled
334146		18-OCT-12	CRESTLINE SPECIALTIES CO INC		753.26	22-OCT-12	753.26	Reconciled
334147		18-OCT-12	DATA CLEAN CORPORATION		826.25	23-OCT-12	826.25	Reconciled
334148		18-OCT-12	DEE JASPAR & ASSOCIATES, INC.		21,491.53	25-OCT-12	21,491.53	Reconciled
334149		18-OCT-12	DISCOVERY SCIENCE CENTER		2,370.48	22-OCT-12	2,370.48	Reconciled
334150		18-OCT-12	DOWDELL, MICHAEL		41.44	24-OCT-12	41.44	Reconciled
334151		18-OCT-12	DRIVELINES UNLIMITED		765.34	23-OCT-12	765.34	Reconciled
334152		18-OCT-12	DUDLEY RIDGE WATER DISTRICT		38,931.30	25-OCT-12	38,931.30	Reconciled
334153		18-OCT-12	EHSAN, MAHSHID		54.16	23-OCT-12	54.16	Reconciled
334154		18-OCT-12	EISEL ENTERPRISES INC		522.59	26-OCT-12	522.59	Reconciled
334155		18-OCT-12	ELECTRICAL SYSTEMS ENGINEERING		42,175.00	23-OCT-12	42,175.00	Reconciled
334156		18-OCT-12	EMPLOYEE BENEFIT SPECIALIST, INC		665.00	22-OCT-12	665.00	Reconciled
334157		18-OCT-12	ENVIRONMENTAL EXPRESS INC		2,286.12	22-OCT-12	2,286.12	Reconciled
334158		18-OCT-12	EVANS-HYDRO INC		6,349.78	29-OCT-12	6,349.78	Reconciled
334159		18-OCT-12	EXPRESSAIR		92.00			Negotiable
334160		18-OCT-12	FERGUSON WATERWORKS		924.50	22-OCT-12	924.50	Reconciled
334161		18-OCT-12	FERGUSON, DAVID		2,991.62	29-OCT-12	2,991.62	Reconciled
334162		18-OCT-12	FIRST HEALTH LIFE AND HEALTH INSURANCE COMPANY		38.70	25-OCT-12	38.70	Reconciled
334163		18-OCT-12	FISHER SCIENTIFIC COMPANY LLC		4,288.17	22-OCT-12	4,288.17	Reconciled
334164		18-OCT-12	FORTIS RESOURCE PARTNERS INC		2,754.40	22-OCT-12	2,754.40	Reconciled
334165		18-OCT-12	GANAHL LUMBER CO.		144.82	22-OCT-12	144.82	Reconciled
334166		18-OCT-12	GRAINGER		2,174.14	22-OCT-12	2,174.14	Reconciled
334167		18-OCT-12	GRAYBAR ELECTRIC COMPANY		3,814.98	22-OCT-12	3,814.98	Reconciled

IRWD Ledger Payment Register For 01-OCT-12 To 31-OCT-12 Report Date: 01-NOV-2012 11:23
 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								
334168		18-OCT-12	HACH COMPANY		9,942.00	25-OCT-12	9,942.00	Reconciled
334169		18-OCT-12	HIGBIE, LAURA		39.98	23-OCT-12	39.98	Reconciled
334170		18-OCT-12	HILL BROTHERS CHEMICAL COMPANY		3,637.82	22-OCT-12	3,637.82	Reconciled
334171		18-OCT-12	HOME DEPOT USA INC		280.58	29-OCT-12	280.58	Reconciled
334172		18-OCT-12	HSG INC		1,462.00	22-OCT-12	1,462.00	Reconciled
334173		18-OCT-12	HUMANA INSURANCE COMPANY		20.90	22-OCT-12	20.90	Reconciled
334174		18-OCT-12	HUNSAKER & ASSOCIATES IRVINE		167.00	23-OCT-12	167.00	Reconciled
334175		18-OCT-12	IDEXX DISTRIBUTION, INC		5,643.96	24-OCT-12	5,643.96	Reconciled
334176		18-OCT-12	IFM EFECTOR INC		475.46	22-OCT-12	475.46	Reconciled
334177		18-OCT-12	IT FUELS INC		20,715.97	24-OCT-12	20,715.97	Reconciled
334178		18-OCT-12	INSTUFORM		37,125.00	25-OCT-12	37,125.00	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
334179		18-OCT-12	TECHNOLOGIES INC IRVINE PIPE & SUPPLY INC		138.37	25-OCT-12	138.37	Reconciled
334180		18-OCT-12	J.P. MORGAN SECURITIES, INC.		22,622.95	26-OCT-12	22,622.95	Reconciled
334181		18-OCT-12	JCI JONES CHEMICALS INC		8,258.25	22-OCT-12	8,258.25	Reconciled
334182		18-OCT-12	JOHN G. ALEVIZOS D.O. INC.		1,661.98	24-OCT-12	1,661.98	Reconciled
334183		18-OCT-12	JOHN MICHAEL COVAS		99.90	24-OCT-12	99.90	Reconciled
334184		18-OCT-12	KHMIRAMONTES, INC.		40,360.00	23-OCT-12	40,360.00	Reconciled
334185		18-OCT-12	KELLY SERVICES INC		680.96	22-OCT-12	680.96	Reconciled
334186		18-OCT-12	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES		5,075.00	23-OCT-12	5,075.00	Reconciled
334187		18-OCT-12	LENOVO UNITED STATES INC		241.34	22-OCT-12	241.34	Reconciled
334188		18-OCT-12	MARKET-THINK LLC		3,900.00			Negotiable
334189		18-OCT-12	MC MASTER CARR SUPPLY CO		404.94	23-OCT-12	404.94	Reconciled
334190		18-OCT-12	MERCHANTS LANDSCAPE SERVICES INC		271.84	19-OCT-12	271.84	Reconciled
334191		18-OCT-12	MGH PAINTING INC		8,790.00	23-OCT-12	8,790.00	Reconciled
334192		18-OCT-12	MSC INDUSTRIAL SUPPLY CO		280.30	23-OCT-12	280.30	Reconciled
334193		18-OCT-12	NATIONAL READY MIXED CONCRETE CO		933.98	22-OCT-12	933.98	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 20
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
334194		18-OCT-12	NORMAN S. WRIGHT MECHANICAL EQUIPMENT OF SOUTHERN CALIFORNIA, LLC		1,546.22	19-OCT-12	1,546.22	Reconciled
334195		18-OCT-12	OLIN CORPORATION		8,160.96	25-OCT-12	8,160.96	Reconciled
334196		18-OCT-12	ONESOURCE DISTRIBUTORS LLC		615.82	22-OCT-12	615.82	Reconciled
334197		18-OCT-12	ONESOURCE DISTRIBUTORS LLC		809.38	22-OCT-12	809.38	Reconciled
334198		18-OCT-12	ORANGE COUNTY SANITATION DISTRICT		53,904.74			Voided
334199		18-OCT-12	ORANGE COUNTY TREASURER		35.00	23-OCT-12	35.00	Reconciled
334200		18-OCT-12	PACIFIC GAS AND ELECTRIC COMPANY		30,558.71	26-OCT-12	30,558.71	Reconciled
334201		18-OCT-12	PACIFIC MECHANICAL SUPPLY		251.49	19-OCT-12	251.49	Reconciled
334202		18-OCT-12	PHOENIX PUMPS OF CALIFORNIA, INC.		4,619.69	25-OCT-12	4,619.69	Reconciled
334203		18-OCT-12	PIVOT INTERIORS INC		1,477.75	19-OCT-12	1,477.75	Reconciled
334204		18-OCT-12	PRAXAIR DISTRIBUTION INC		782.56	24-OCT-12	782.56	Reconciled
334205		18-OCT-12	PROCESS PUMP SALES INC		1,478.04	26-OCT-12	1,478.04	Reconciled
334206		18-OCT-12	PSB THE MARKETING SUPERSOURCE		3,900.21	19-OCT-12	3,900.21	Reconciled
334207		18-OCT-12	QUICKEL PAVING INC		500.00	22-OCT-12	500.00	Reconciled
334208		18-OCT-12	RAM AIR ENGINEERING INC		640.00	19-OCT-12	640.00	Reconciled
334209		18-OCT-12	RBF CONSULTING		7,139.37	26-OCT-12	7,139.37	Reconciled
334210		18-OCT-12	SANTA ANA BLUE PRINT		69.47	23-OCT-12	69.47	Reconciled
334211		18-OCT-12	SHAMROCK SUPPLY CO INC		1,300.20	19-OCT-12	1,300.20	Reconciled
334212		18-OCT-12	SIRIUS COMPUTER SOLUTIONS INC		7,000.00	25-OCT-12	7,000.00	Reconciled
334213		18-OCT-12	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		1,705.64	24-OCT-12	1,705.64	Reconciled
334214		18-OCT-12	SOUTH COAST WATER CO.		40.00	19-OCT-12	40.00	Reconciled

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 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								
334215		18-OCT-12	SOUTHERN		213,996.94	22-OCT-12	213,996.94	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
334216		18-OCT-12	CALIFORNIA EDISON COMPANY STANTEC CONSULTING SERVICES INC.		1,425.06	22-OCT-12	1,425.06	Reconciled
334217		18-OCT-12	STERILIZER TECHNICAL		375.00	22-OCT-12	375.00	Reconciled
334218		18-OCT-12	STERIS CORPORATION		4,364.92	22-OCT-12	4,364.92	Reconciled
334219		18-OCT-12	TESTAMERICA LABORATORIES, INC		157.50	22-OCT-12	157.50	Reconciled
334220		18-OCT-12	THE GAS COMPANY		2,120.19	24-OCT-12	2,120.19	Reconciled
334221		18-OCT-12	TRABUCO CANYON WATER DISTRICT		84,576.41	24-OCT-12	84,576.41	Reconciled
334222		18-OCT-12	TRANSCAT, INC		141.37	22-OCT-12	141.37	Reconciled
334223		18-OCT-12	TRANSFORMER TESTING		850.00	25-OCT-12	850.00	Reconciled
334224		18-OCT-12	TROPICAL PLAZA NURSERY INC		8,673.16	23-OCT-12	8,673.16	Reconciled
334225		18-OCT-12	UNITED PARCEL SERVICE INC		20.00	22-OCT-12	20.00	Reconciled
334226		18-OCT-12	UNITED SITE SERVICES OF CALIFORNIA INC		730.35	22-OCT-12	730.35	Reconciled
334227		18-OCT-12	US PEROXIDE LLC		12,535.77	25-OCT-12	12,535.77	Reconciled
334228		18-OCT-12	VERIZON CALIFORNIA INC		39.52	24-OCT-12	39.52	Reconciled
334229		18-OCT-12	VULCAN MATERIALS COMPANY		1,714.55	22-OCT-12	1,714.55	Reconciled
334230		18-OCT-12	VNR INTERNATIONAL, LLC		5,431.27	25-OCT-12	5,431.27	Reconciled
334231		18-OCT-12	WECK LABORATORIES INC		2,436.50	19-OCT-12	2,436.50	Reconciled
334232		18-OCT-12	WESTERN EXTERMINATOR COMPANY		5,388.00			Negotiable
334233		18-OCT-12	WHITMORE, JERRY		1,096.00	26-OCT-12	1,096.00	Reconciled
334234		18-OCT-12	WORKFLOWONE		2,340.54	22-OCT-12	2,340.54	Reconciled
334235		18-OCT-12	BANK OF NEW YORK NEWARK MELLON TRUST COMPANY NA		100.00	24-OCT-12	100.00	Reconciled
334236		18-OCT-12	HILL BROTHERS CHEMICAL COMPANY	ORANGE	256.04	22-OCT-12	256.04	Reconciled
334237		19-OCT-12	AAF INTERNATIONAL		640.40	26-OCT-12	640.40	Reconciled
334238		19-OCT-12	ABEL PUMPS LP		1,235.94	24-OCT-12	1,235.94	Reconciled
334239		19-OCT-12	BATTERY SPECIALTIES		3,204.06			Negotiable

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document ; IRWD CHECK								
334240		19-OCT-12	BDC SPECIAL WASTE		354.40	25-OCT-12	354.40	Reconciled
334241		19-OCT-12	CAMERON WELDING SUPPLY		1,766.02	23-OCT-12	1,766.02	Reconciled
334242		19-OCT-12	CLEARINGHOUSE		528.45	22-OCT-12	528.45	Reconciled
334243		19-OCT-12	CONEYBEARE INC		4,832.22	24-OCT-12	4,832.22	Reconciled
334244		19-OCT-12	FARWEST CORROSION CONTROL CO		6,398.00	24-OCT-12	6,398.00	Reconciled
334245		19-OCT-12	FLEET SOLUTIONS LLC		3,992.05	24-OCT-12	3,992.05	Reconciled
334246		19-OCT-12	FRANCHISE TAX BOARD		350.00			Negotiable
334247		19-OCT-12	HILL BROTHERS CHEMICAL COMPANY		669.00	23-OCT-12	669.00	Reconciled
334248		19-OCT-12	HOME DEPOT USA INC		360.24	29-OCT-12	360.24	Reconciled
334249		19-OCT-12	HOPKINS TECHNICAL PRODUCTS INC		2,095.46	25-OCT-12	2,095.46	Reconciled
334250		19-OCT-12	II FUELS INC		34,220.09	24-OCT-12	34,220.09	Reconciled
334251		19-OCT-12	INTERNAL REVENUE SERVICE		25.00	24-OCT-12	25.00	Reconciled
334252		19-OCT-12	INTERNAL REVENUE SERVICE		1,441.98	26-OCT-12	1,441.98	Reconciled
334253		19-OCT-12	IRVINE PIPE & SUPPLY INC		263.71	25-OCT-12	263.71	Reconciled
334254		19-OCT-12	IRWD-PETTY CASH CUSTODIAN		725.08	23-OCT-12	725.08	Reconciled
334255		19-OCT-12	J.R. FILANC CONSTRUCTION COMPANY INC.		1,488.49	25-OCT-12	1,488.49	Reconciled
334256		19-OCT-12	KONECRANES INC		1,070.00	25-OCT-12	1,070.00	Reconciled
334257		19-OCT-12	NORITSU AMERICA CORPORATION		200.00	25-OCT-12	200.00	Reconciled
334258		19-OCT-12	O G SUPPLY		232.06	26-OCT-12	232.06	Reconciled
334259		19-OCT-12	OLIN CORPORATION		13,634.92	25-OCT-12	13,634.92	Reconciled
334260		19-OCT-12	ORANGE COUNTY SHERIFF'S OFFICE		930.73			Negotiable
334261		19-OCT-12	ORANGE COUNTY TREASURER		830.50	25-OCT-12	830.50	Reconciled
334262		19-OCT-12	PERS LONG TERM CARE		1,082.16	24-OCT-12	1,082.16	Reconciled

334263	19-OCT-12	PRAXAIR		465.18	29-OCT-12	465.18	Reconciled
		DISTRIBUTION INC					
334264	19-OCT-12	PURE EFFECT INC		5,945.00	23-OCT-12	5,945.00	Reconciled
334265	19-OCT-12	RESPONSE ENVELOPE, INC		3,379.31	25-OCT-12	3,379.31	Reconciled
334266	19-OCT-12	RITE AID PHARMACY		2,380.00	29-OCT-12	2,380.00	Reconciled

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 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								
334267		19-OCT-12	SOUTHERN CALIFORNIA EDISON COMPANY		9,427.54	24-OCT-12	9,427.54	Reconciled
334268		19-OCT-12	SUPPORT PRODUCTS SERVICES		1,616.25	29-OCT-12	1,616.25	Reconciled
334269		19-OCT-12	TROPICAL PLAZA NURSERY INC		154.00	23-OCT-12	154.00	Reconciled
334270		19-OCT-12	VWR INTERNATIONAL, LLC		7.47	25-OCT-12	7.47	Reconciled
334271		19-OCT-12	WATERLINE TECHNOLOGIES INC		2,780.00	23-OCT-12	2,780.00	Reconciled
334272		19-OCT-12	WAXIE'S ENTERPRISES, INC		2,011.06	25-OCT-12	2,011.06	Reconciled
334273		19-OCT-12	WEST COAST SAFETY SUPPLY INC		1,260.11			Negotiable
334274		19-OCT-12	WESTERN WATER WORKS SUPPLY COMPANY		737.64	23-OCT-12	737.64	Reconciled
334275		19-OCT-12	Forrest Thatcher	HOME	582.06	22-OCT-12	582.06	Reconciled
334276		25-OCT-12	DEPARTMENT OF WATER RESOURCES 1	SACRAMENTO	4,200.00			Negotiable
334277		25-OCT-12	CALIFORNIA STATE UNIVERSITY, FULLERTON	FULLERTON	5,600.00			Negotiable
334278		25-OCT-12	Amy McNulty		149.54	26-OCT-12	149.54	Reconciled
334279		25-OCT-12	Anthony Mossbarger		374.27	26-OCT-12	374.27	Reconciled
334280		25-OCT-12	Beth Beeman		37.00			Negotiable
334281		25-OCT-12	Fiona Sanchez		44.19	26-OCT-12	44.19	Reconciled
334282		25-OCT-12	Frank Tessers		70.40			Negotiable
334283		25-OCT-12	Gina Jackson		22.55			Negotiable
334284		25-OCT-12	Gregory Heiertz		54.00			Negotiable
334285		25-OCT-12	Lars Oldewage		1,052.63	29-OCT-12	1,052.63	Reconciled
334286		25-OCT-12	Michael Chandler		36.30			Negotiable
334287		25-OCT-12	Rosemary Riddle		103.44			Negotiable
334288		25-OCT-12	Somkit Rattan		113.13			Negotiable
334289		25-OCT-12	Steven Malloy		25.00			Negotiable
334290		25-OCT-12	A & Y ASPHALT CONTRACTORS INC		6,867.00			Negotiable
334291		25-OCT-12	A&A WIPING CLOTH CO		508.58			Negotiable
334292		25-OCT-12	AAF INTERNATIONAL		406.06	29-OCT-12	406.06	Reconciled
334293		25-OCT-12	ACCURATE AIR ENGINEERING INC		889.56			Negotiable
334294		25-OCT-12	ACTION ELECTRIC CORP		1,233.74			Negotiable
334295		25-OCT-12	AFLAC		5,745.41			Negotiable

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
334296		25-OCT-12	AFRSHTEH, ALI		47.40			Negotiable
334297		25-OCT-12	AITKEN, SIMON		57.29			Negotiable
334298		25-OCT-12	APPLIED INDUSTRIAL TECHNOLOGIES - CA LLC		145.20	29-OCT-12	145.20	Reconciled
334299		25-OCT-12	ARCADIS U.S., INC.		2,870.00	29-OCT-12	2,870.00	Reconciled
334300		25-OCT-12	AT&T		15.57			Negotiable
334301		25-OCT-12	BALOUSEK, STEPHEN		36.59			Negotiable
334302		25-OCT-12	BAVCO BACKFLOW APPARATUS & VALVE COMPANY		859.94	26-OCT-12	859.94	Reconciled
334303		25-OCT-12	BCGR		1,485.00	29-OCT-12	1,485.00	Reconciled
334304		25-OCT-12	BDC SPECIAL WASTE		835.00	29-OCT-12	835.00	Reconciled
334305		25-OCT-12	BELDERAS, SAUL		8.04			Negotiable
334306		25-OCT-12	BEST DRILLING AND PUMP, INC.		87,471.25			Negotiable
334307		25-OCT-12	BILL'S SWEEPING SERVICE INC		460.00			Negotiable
334308		25-OCT-12	BK FOUNTAIN WORKS		599.40	26-OCT-12	599.40	Reconciled
334309		25-OCT-12	BOHAC CONSULTING SERVICES, INC.		540.00			Negotiable

334310	25-OCT-12	BRENNTAG PACIFIC INC	15,128.10				Negotiable
334311	25-OCT-12	BRETT, JESSE	33.40	29-OCT-12	33.40		Reconciled
334312	25-OCT-12	Brian Bystrom	1,406.85	29-OCT-12	1,406.85		Reconciled
334313	25-OCT-12	C WELLS PIPELINE MATERIALS INC	7,718.68				Negotiable
334314	25-OCT-12	CALIFORNIA BARRICADE INC	400.00	26-OCT-12	400.00		Reconciled
334315	25-OCT-12	CALIFORNIA DEPT OF HEALTH SVCS	5,975.00				Negotiable
334316	25-OCT-12	CANDELA CORPORATION	17.24	29-OCT-12	17.24		Reconciled
334317	25-OCT-12	CH2M HILL, INC	27,048.00				Negotiable
334318	25-OCT-12	CHEN, LARRY	182.76	29-OCT-12	182.76		Reconciled
334319	25-OCT-12	CLA-VAL COMPANY	7,363.51				Negotiable
334320	25-OCT-12	COLONIAL LIFE & ACCIDENT INSURANCE CO.	1,751.68				Negotiable
334321	25-OCT-12	CONN, CHRISTINA	44.78				Negotiable
334322	25-OCT-12	CPWH	131.27				Negotiable
334323	25-OCT-12	D & H WATER SYSTEMS INC.	14,502.30				Negotiable
334324	25-OCT-12	DAYANI, BAHRAM	127.83	29-OCT-12	127.83		Reconciled
334325	25-OCT-12	DIRECTV INC	89.99				Negotiable
334326	25-OCT-12	DIZON, DIZONEL	101.74				Negotiable

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
334327		25-OCT-12	EAST ORANGE COUNTY WATER DISTRICT		3,198.93	29-OCT-12	3,198.93	Reconciled
334328		25-OCT-12	ENDRESS AND HAUSER INC		5,264.37			Negotiable
334329		25-OCT-12	ENTERPRISE INFORMATION SYSTEMS INC		6,300.00			Negotiable
334330		25-OCT-12	ESA PWA		135.19			Negotiable
334331		25-OCT-12	EVOLVE MEDIA		792.00	29-OCT-12	792.00	Reconciled
334332		25-OCT-12	FARRELL & ASSOCIATES		1,130.06	26-OCT-12	1,130.06	Reconciled
334333		25-OCT-12	FEDEX		61.75			Negotiable
334334		25-OCT-12	FERGUSON WATERWORKS		2,437.31	29-OCT-12	2,437.31	Reconciled
334335		25-OCT-12	FIRST CHOICE SERVICES		259.04			Negotiable
334336		25-OCT-12	FISERV		290.50	29-OCT-12	290.50	Reconciled
334337		25-OCT-12	FISHER SCIENTIFIC COMPANY LLC		2,071.23	29-OCT-12	2,071.23	Reconciled
334338		25-OCT-12	FLATIRON WEST INC		185,758.82			Negotiable
334339		25-OCT-12	FORTIS RESOURCE PARTNERS INC		9,677.60			Negotiable
334340		25-OCT-12	FT ZIEBARTH COMPANY		34,245.00			Negotiable
334341		25-OCT-12	G.M. SAGER CONSTRUCTION CO, INC		42,100.00			Negotiable
334342		25-OCT-12	GANAHL LUMBER CO.		988.54	29-OCT-12	988.54	Reconciled
334343		25-OCT-12	GEYER, DEBORAH		434.40			Negotiable
334344		25-OCT-12	GHONEIM, KAMAL		98.33			Negotiable
334345		25-OCT-12	GOLDEN STATE CONTROLS		1,190.55			Negotiable
334346		25-OCT-12	GOOGLE INC.		1,023.72	29-OCT-12	1,023.72	Reconciled
334347		25-OCT-12	GRAINGER		642.59	29-OCT-12	642.59	Reconciled
334348		25-OCT-12	GRINDSTAFF, RAGHEL		130.09			Negotiable
334349		25-OCT-12	H2O INNOVATION USA INC		3,291.76			Negotiable
334350		25-OCT-12	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY		153.62			Negotiable
334351		25-OCT-12	HDR ENGINEERING INC		193,914.01			Negotiable
334352		25-OCT-12	HILL BROTHERS CHEMICAL COMPANY		30,132.75			Negotiable
334353		25-OCT-12	HUMANSCALE OF CALIFORNIA INC		1,762.94	29-OCT-12	1,762.94	Reconciled

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
334354		25-OCT-12	IBM CORPORATION		58,329.00			Negotiable
334355		25-OCT-12	INDUSTRIAL		759.05	29-OCT-12	759.05	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
334356	25-OCT-12	ELECTRIC MACHINERY LLC			195.22	29-OCT-12	195.22	Reconciled
334357	25-OCT-12	IRVINE PIPE & SUPPLY INC			4,324.73			Negotiable
334358	25-OCT-12	IRVINE PROPERTY MANAGEMENT			21.07	26-OCT-12	21.07	Reconciled
334359	25-OCT-12	JCI JONES CHEMICALS INC			2,489.19	29-OCT-12	2,489.19	Reconciled
334360	25-OCT-12	JOHN G. ALEVIOS D.O. INC.			304.42	29-OCT-12	304.42	Reconciled
334361	25-OCT-12	JONES, GRACIELA G			222.54	29-OCT-12	222.54	Reconciled
334362	25-OCT-12	JUN, YONGGUN			28.29			Negotiable
334363	25-OCT-12	KELLY SERVICES INC			851.20	29-OCT-12	851.20	Reconciled
334364	25-OCT-12	KILL-N-BUGS TERMITES AND PEST CONTROL SERVICES			775.00	26-OCT-12	775.00	Reconciled
334365	25-OCT-12	KONECRANES INC			1,900.00	29-OCT-12	1,900.00	Reconciled
334366	25-OCT-12	KRAUT, JEAN			15.00			Negotiable
334367	25-OCT-12	KS DIRECT LLC			700.38	29-OCT-12	700.38	Reconciled
334368	25-OCT-12	KUAN, KATHERINE			33.86			Negotiable
334369	25-OCT-12	LAGUNAS, PAVEL			37.34			Negotiable
334370	25-OCT-12	LAKE FOREST PARTNERS V, LLC			2,989.73	26-OCT-12	2,989.73	Reconciled
334371	25-OCT-12	LEATHERWOOD CONSTRUCTION INC			1,233.40	26-OCT-12	1,233.40	Reconciled
334372	25-OCT-12	LEATHERWOOD CONSTRUCTION INC			28,434.60			Negotiable
334373	25-OCT-12	LENOVO UNITED STATES INC			1,967.12	29-OCT-12	1,967.12	Reconciled
334374	25-OCT-12	LIEU, JOHN			30.51			Negotiable
334375	25-OCT-12	LINDSAY, ROBERT			164.13			Negotiable
334376	25-OCT-12	LOH, MARVIN			42.47			Negotiable
334377	25-OCT-12	LUBRICATION ENGINEERS, INC.			1,885.14	29-OCT-12	1,885.14	Reconciled
334378	25-OCT-12	MALCOLM FIRNIE INC			48,716.43			Negotiable
334379	25-OCT-12	MARSH RISK & INSURANCE SVCS			9,211.00			Negotiable
334380	25-OCT-12	MARVIN GARDENS LLC			3,036.21	26-OCT-12	3,036.21	Reconciled
334381	25-OCT-12	MC MASTER CARR SUPPLY CO			228.80	29-OCT-12	228.80	Reconciled
334382	25-OCT-12	MERCADO, SHEA			27.53	29-OCT-12	27.53	Reconciled
334383	25-OCT-12	MISCOWATER			566.20			Negotiable

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
334384	25-OCT-12	MK POWER LLC			2,400.00	29-OCT-12	2,400.00	Reconciled
334385	25-OCT-12	MONAJEMI, RAHIM			35.00			Negotiable
334386	25-OCT-12	MONARCH HEALTHCARE			398.96			Negotiable
334387	25-OCT-12	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY			14,000.00			Negotiable
334388	25-OCT-12	NATIONAL READY MIXED CONCRETE CO			685.27	29-OCT-12	685.27	Reconciled
334389	25-OCT-12	NEWPORT BEACH, CITY OF			1,099.53	29-OCT-12	1,099.53	Reconciled
334390	25-OCT-12	NOREX INC			3,400.00			Negotiable
334391	25-OCT-12	NORITSU AMERICA CORPORATION			280.00			Negotiable
334392	25-OCT-12	ODNESS, NOORE			33.86			Negotiable
334393	25-OCT-12	OLIN CORPORATION			11,279.88			Negotiable
334394	25-OCT-12	ON ASSIGNMENT LAB SUPPORT			7,219.84			Negotiable
334395	25-OCT-12	ORANGE COUNTY AUTO PARTS CO			42.54	26-OCT-12	42.54	Reconciled
334396	25-OCT-12	ORANGE COUNTY TREASURER			257.50	29-OCT-12	257.50	Reconciled
334397	25-OCT-12	ORRANTIA, ERIC			69.15	29-OCT-12	69.15	Reconciled
334398	25-OCT-12	PACIFIC GAS AND ELECTRIC COMPANY			63.48			Negotiable
334399	25-OCT-12	PACIFIC HYDROTECH CORPORATION			81,879.55			Negotiable
334400	25-OCT-12	PAO, CAROLYN			44.27			Negotiable
334401	25-OCT-12	PAPWORTH, JOHN			32.29			Negotiable
334402	25-OCT-12	PASCAL & LUDWIG CONSTRUCTORS			580,532.72			Negotiable
334403	25-OCT-12	PASCAL & LUDWIG CONSTRUCTORS			15,124.80			Negotiable
334404	25-OCT-12	PASCAL & LUDWIG CONSTRUCTORS			1,020.15	26-OCT-12	1,020.15	Reconciled
334405	25-OCT-12	PASQUAL, ROBIN			14.76			Negotiable
334406	25-OCT-12	PASUPULETI, SURENDRA			33.65	29-OCT-12	33.65	Reconciled
334407	25-OCT-12	PATTON ELECTRONICS COMPANY			875.00			Negotiable
334408	25-OCT-12	PAULUS ENGINEERING			60,377.50			Negotiable

334409		25-OCT-12	INC PINNACLE LANDSCAPE COMPANY		6,560.00			Negotiable
334410		25-OCT-12	PINNACLE TOWERS LLC		569.34	29-OCT-12	569.34	Reconciled

IRWD Ledger
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 Bank Account Currency: USD (US Dollar) Account: Checking AP and PR Page: 28
 Payment Type: All Payment Currency: USD (US Dollar) Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
334411		25-OCT-12	PK MECHANICAL SYSTEMS INC		575.08	29-OCT-12	575.08	Reconciled
334412		25-OCT-12	PRAXAIR		1,456.92			Negotiable
334413		25-OCT-12	DISTRIBUTION INC PRE-PAID LEGAL SERVICES INC		1,490.20			Negotiable
334414		25-OCT-12	PROBOLSKY RESEARCH LLC		7,000.00			Negotiable
334415		25-OCT-12	PSB THE MARKETING SUPERSOURCE		2,622.50	26-OCT-12	2,622.50	Reconciled
334416		25-OCT-12	PSOMAS		13,748.81			Negotiable
334417		25-OCT-12	RAM AIR ENGINEERING INC		15,046.39			Negotiable
334418		25-OCT-12	RBF CONSULTING		2,149.33	29-OCT-12	2,149.33	Reconciled
334419		25-OCT-12	RBF CONSULTING		56,821.66			Negotiable
334420		25-OCT-12	REY, LAURA		51.37			Negotiable
334421		25-OCT-12	SANTA ANA BLUE PRINT		82.41			Negotiable
334422		25-OCT-12	SAPETTO GROUP INC		1,187.50			Negotiable
334423		25-OCT-12	SCS ENGINEERS		5,165.00			Negotiable
334424		25-OCT-12	SECURTEC DISTRICT PATROL INC		3,700.00			Negotiable
334425		25-OCT-12	SEPARATION PROCESSES INC		4,701.25			Negotiable
334426		25-OCT-12	SHAMROCK SUPPLY CO INC		1,023.54	26-OCT-12	1,023.54	Reconciled
334427		25-OCT-12	SOUTH COAST WATER DISTRICT		2,477.25	29-OCT-12	2,477.25	Reconciled
334428		25-OCT-12	SOUTH ORANGE COUNTY WASTEWATER AUTHORITY		50,300.00			Negotiable
334429		25-OCT-12	SOUTHERN CALIFORNIA EDISON COMPANY		85,845.55			Negotiable
334430		25-OCT-12	SOUTHWEST VALVE & EQUIPMENT		1,179.77			Negotiable
334431		25-OCT-12	SS MECHANICAL CORPORATION		23,968.13			Negotiable
334432		25-OCT-12	STATE BOARD OF EQUALIZATION		714.44			Negotiable
334433		25-OCT-12	STATE WATER RESOURCES CONTROL BOARD		466.00			Negotiable
334434		25-OCT-12	SULLY-MILLER CONTRACTING CO.		14,281.89			Negotiable

IRWD Ledger
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 Payment Type: All Payment Currency: USD (US Dollar) Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
334435		25-OCT-12	SULLY-MILLER CONTRACTING CO.		271,355.93			Negotiable
334436		25-OCT-12	SUNRIDGE COMMUNITY ASSN		5,125.13			Negotiable
334437		25-OCT-12	SUPPORT PRODUCTS SERVICES		572.31	29-OCT-12	572.31	Reconciled
334438		25-OCT-12	T AND S LARSEN MAINTENANCE		400.00	26-OCT-12	400.00	Reconciled
334439		25-OCT-12	TEKDRAULICS		19,959.55			Negotiable
334440		25-OCT-12	TESTAMERICA LABORATORIES, INC		213.15			Negotiable
334441		25-OCT-12	THE GAS COMPANY		2,107.60			Negotiable
334442		25-OCT-12	TIC-IPG-COMMON		2,452.05			Negotiable
334443		25-OCT-12	TIC-SPECTRUM OFFICE		538.91			Negotiable
334444		25-OCT-12	TREE OF LIFE NURSERY		787.38	29-OCT-12	787.38	Reconciled
334445		25-OCT-12	TRENCH SHORING COMPANY		17,348.34			Negotiable
334446		25-OCT-12	TROPICAL PLAZA NURSERY INC		22,057.46			Negotiable
334447		25-OCT-12	TRUGREEN LANDCARE LLC		43,700.00			Negotiable

334448	25-OCT-12	U S DEMOLITION	212.27				Negotiable
334449	25-OCT-12	U S RIGGING SUPPLY	897.53	29-OCT-12	897.53		Reconciled
334450	25-OCT-12	UNITED PARCEL SERVICE INC	84.75	29-OCT-12	84.75		Reconciled
334451	25-OCT-12	US PEROXIDE LLC	18,630.70				Negotiable
334452	25-OCT-12	USA BLUEBOOK	1,222.35				Negotiable
334453	25-OCT-12	VA CONSULTING, INC	6,110.00				Negotiable
334454	25-OCT-12	VAN, DERRICK	23.11				Negotiable
334455	25-OCT-12	VASIRAJU, NAVEEN	11.27				Negotiable
334456	25-OCT-12	VERIZON CALIFORNIA INC	408.05				Negotiable
334457	25-OCT-12	VICTOR CHARNETSKY	61.84				Negotiable
334458	25-OCT-12	W.M. LYLES CO	79,377.85				Negotiable
334459	25-OCT-12	WATERSTONE ENVIRONMENTAL INC,	1,500.00				Negotiable
334460	25-OCT-12	WAXIE'S ENTERPRISES, INC	832.92	29-OCT-12	832.92		Reconciled
334461	25-OCT-12	WECK LABORATORIES INC	115.00	29-OCT-12	115.00		Reconciled
334462	25-OCT-12	WELLS SUPPLY COMPANY	294.10	26-OCT-12	294.10		Reconciled
334463	25-OCT-12	WEST COAST SAND & GRAVEL INC.	375.63	26-OCT-12	375.63		Reconciled

IRWD Ledger
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 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar) Page: 30
 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								
334464		25-OCT-12	WESTERN EXTERMINATOR COMPANY		520.00			Negotiable
334465		25-OCT-12	YORK INSURANCE SERVICES GROUP INC - CA		7,228.50			Negotiable
334466		25-OCT-12	SERRANO HIGHLANDS TUSTIN MASTER ASSOCIATION		8,500.00			Negotiable
334467		25-OCT-12	GRAHAM, DAVID JOHNTRABUCO CANYON		4,795.23			Negotiable
334468		29-OCT-12	STATE BOARD OF EQUALIZATION	SACRAMENTO	3,013.00			Negotiable
334469		29-OCT-12	JCI JONES CHEMICALS INC	CINCINNATI	2,529.46			Negotiable
334470		29-OCT-12	IRWD-PETTY CASH CUSTODIAN	IRVINE	793.14			Negotiable
334471		30-OCT-12	ORANGE, COUNTY OF SANTA ANA	5	2,016.00			Negotiable
Payment Document Subtotal:					7,679,188.95		4,085,975.03	

Payment Document : IRWD Wire

9621		09-OCT-12	CALPERS	SACRAMENTO	314,876.59			Negotiable
9622		16-OCT-12	INTERNAL REVENUE SERVICE	FRESNO	142,454.05			Negotiable
9623		16-OCT-12	FRANCHISE TAX BOARD	SACRAMENTO	39,730.21			Negotiable
9624		16-OCT-12	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	8,454.41			Negotiable
9625		16-OCT-12	WILLIAMS, TWYLA	PARKER	1,158.79			Negotiable
9626		16-OCT-12	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO	1,991.98			Negotiable
9627		16-OCT-12	EMPLOYEE BENEFIT SPECIALIST, INC	PAY	11,022.34			Negotiable
9628		16-OCT-12	GREAT WEST	DENVER	79,289.16			Negotiable
9629		16-OCT-12	CALPERS	SACRAMENTO	76,680.55			Negotiable
9630		16-OCT-12	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	2,771,164.18			Negotiable
9631		16-OCT-12	SUMITOMO MITSUI BANKING CORPORATION	NEW YORK	2,327.10			Negotiable

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 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar) Page: 31
 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								
9632		16-OCT-12	U.S. BANK NATIONALPAY ASSOCIATION		2,508,360.66			Negotiable
9633		16-OCT-12	U.S. BANK NATIONALPAY ASSOCIATION		2,511,147.54			Negotiable

9634	16-OCT-12	U.S. BANK NATIONALPAY ASSOCIATION		125,975.94		Negotiable
9635	16-OCT-12	BANK OF NEW YORK NEWARK MELLON TRUST COMPANY NA		43,677.59		Negotiable
9636	16-OCT-12	SUMITOMO MITSUI NEW YORK BANKING CORPORAION		130,139.86		Negotiable
9637	17-OCT-12	U.S. BANK NATIONALPAY ASSOCIATION		250.00		Negotiable
9638	17-OCT-12	YORK INSURANCE PAY SERVICES GROUP INC - CA		3,573.55		Negotiable
9639	17-OCT-12	YORK INSURANCE PAY SERVICES GROUP INC - CA		10,074.24		Negotiable
9640	17-OCT-12	YORK INSURANCE PAY SERVICES GROUP INC - CA		4,709.00		Negotiable
9641	18-OCT-12	SUMITOMO MITSUI NEW YORK BANKING CORPORAION		6,441.31		Negotiable
9642	18-OCT-12	BANK OF NEW YORK NEWARK MELLON TRUST COMPANY NA		5,059.40		Negotiable
9643	22-OCT-12	YORK INSURANCE PAY SERVICES GROUP INC - CA		15,820.79		Negotiable
9644	23-OCT-12	INTERNAL REVENUE FRESNO SERVICE		144,002.12		Negotiable
9645	23-OCT-12	FRANCHISE TAX SACRAMENTO BOARD		39,287.16		Negotiable
9646	23-OCT-12	EMPLOYMENT DEVELOPMENT DEPARTMENT W SACRAMENTO		8,152.47		Negotiable
9647	23-OCT-12	MUNICIPAL WATER FOUNTAIN DISTRICT OF ORANGEVALLEY COUNTY		1,769,327.43		Negotiable
9648	23-OCT-12	BANK OF NEW YORK NEWARK MELLON TRUST COMPANY NA		750.00		Negotiable
9649	23-OCT-12	WILLIAMS, TWYLA PARKER		1,158.79		Negotiable

IRWD Ledger
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 32
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD Wire								
9650		23-OCT-12	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO	1,991.98			Negotiable
9651		23-OCT-12	EMPLOYEE BENEFIT SPECIALIST, INC	PAY	12,072.34			Negotiable
9652		23-OCT-12	GREAT WEST	DENVER	76,964.49			Negotiable
9653		23-OCT-12	CALPERS	SACRAMENTO	78,090.89			Negotiable
9654		23-OCT-12	BANK OF AMERICA MERRILL LYNCH	PAY	125,975.94			Negotiable
9655		23-OCT-12	U.S. BANK NATIONALST. LOUIS ASSOCIATION		7,564.38			Negotiable
9656		23-OCT-12	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	533.33			Negotiable
9657		29-OCT-12	YORK INSURANCE PAY SERVICES GROUP INC - CA		2,576.18			Negotiable
9658		30-OCT-12	J.R. FILANC CONSTRUCTION COMPANY INC.	ESCONDIDO	1,451,099.23			Negotiable
9659		30-OCT-12	INTERNAL REVENUE SERVICE	FRESNO	6.32			Negotiable
9660		31-OCT-12	U.S. BANK NATIONALPAY ASSOCIATION		5,794,250.00			Negotiable
Payment Document Subtotal:					18,328,182.29			
Bank Account Subtotal :					26,007,371.24		4,085,975.03	
Report Count : 871		Report Total:		26,007,371.24	4,085,975.03			

*** End of Report ***

November 28, 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 Board for information.

BACKGROUND:

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

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on November 14, 2012.

RECOMMENDATION:

RECEIVE AND FILE.

LIST OF EXHIBITS:

Exhibit "A" – Upcoming Projects Status Report

IRWD UPCOMING PROJECTS STATUS REPORT

EXHIBIT "A"

Project Name	Planning	Start	Construction	Construction
	Start	Design	Award	Final Acceptance
Newport Blvd. (SAH) Waterline Relocation				Fall 2012
Santiago Canyon Area BPS Permanent Generators				Spring 2013
RMS at 5 DW Reservoirs	Summer 2013			
Syphon Reservoir Interim Facilities			Winter 2013	Summer 2013
Main Street Diversion Structure Grating				Winter 2013
SJM Outlet Pipe Valve Improvement				Spring 2013
Vault Lid Rehabilitation - Phase 2			Fall 2012	Winter 2013
Portola Zone 9 Reservoir Access Road Repair		Winter 2013		
SJM Building Campus Mold Remediation			Fall 2012	Winter 2013
Manhole Construction Main Street and Executive Park			Fall 2012	Winter 2013
DW Reservoir Inspection Repairs		Fall 2012		
Jamboree Center Miscellaneous Improvements for Sewer Maintenance			Fall 2012	Winter 2013
Portola Hills SLS Abandonment & Gravity Sewer			Winter 2013	Summer 2013
Newport Coast Cathodic Protection Joint Bonding		Winter 2013	Spring 2013	Fall 2013
Kelvin Avenue Cathodic Protection (Charter Apartments)			Fall 2012	Spring 2013
Santiago Dam and Outlet Tower Seismic Stability Study	On-going			
Syphon Reservoir Improvements through Crean Property			Winter 2013	Summer 2013
Lake Forest Sports Park DW and RW Facilities (RA w/Lake Forest)				Fall 2013
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)			Winter 2013	Summer 2013
Bake Pkwy, S.D. Creek to Future Lake Forest, 12" DW 24" RW (RA w/ICDC)				Fall 2012
Irvine Boulevard Capital DW, S, RW Facilities (RA w/Heritage Fields)				Winter 2013
Ridge Valley Capital RW Facilities (RA w/Heritage Fields)				Summer 2013
Reach B Capital Sewer (RA w/Heritage Fields)				Fall 2013
Capital RW Facilities between OCTA and LV Street (RA w/Heritage Fields)				Fall 2013
Trabuco Road Capital DW, S, RW Facilities (RA w/Heritage Fields)				Fall 2013
Reach A Capital Sewer (RA w/Heritage Fields)				Fall 2013
Baker Ranch Capital Sewer Improvements (RA w/Shea/Toll Brothers)			Winter 2013	Summer 2013
Baker Ranch Phase 1 DW & RW Improvements (RA w/ Shea/Toll Brothers)			Winter 2013	Summer 2013
Baker Ranch Phase 2 DW & RW Improvements (RA w/ Shea/Toll Brothers)			Spring 2013	Fall 2013
MWRP Biosolids and Energy Recovery Facilities			Winter 2013	Fall 2016
Bee Canyon Pump Station (ICDC)				Summer 2013
Well 21 & 22 Treatment Plant (Design/Build)				Winter 2013
MWRP Phase 2 Expansion				Winter 2013
Lake Forest (LAWD) PLC Replacement and Control System Upgrades			Summer 2013	Winter 2014

OS
November 28, 2012

Prepared by: H. Cho/M. Cortez

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

Approved by: Paul Cook *P. Cook*

CONSENT CALENDAR

PORTOLA ZONE 9 BOOSTER PUMP STATION GENERATOR BUDGET ADDITION, EXPENDITURE AUTHORIZATION AND VARIANCE

SUMMARY:

The Portola Zone 9 Booster Pump Station (BPS) Generator Project will construct a permanent emergency diesel generator at the Portola Zone 9 BPS. Staff recommends that the Board:

- Authorize the addition of Project 11667 in the amount of \$293,700 to the FY 2012-13 Capital Budget;
- Approve an Expenditure Authorization in the amount of \$68,200 for Project 11667; and
- Authorize the General Manager to execute Variance No. 5 in the amount of \$28,240 with Psomas for additional engineering services.

BACKGROUND:

The Portola Zone 9 BPS was originally built in 1987 to serve the Zone 9 system in Portola Hills as shown in Exhibit "A". During the 2007 Santiago Fire, the BPS was destroyed, and a replacement BPS was rebuilt the following year. Since the BPS was rebuilt, staff has stationed a temporary generator in case of a power outage or another wildfire. The Portola Zone 9 BPS Generator Project will construct a permanent emergency diesel generator at the BPS to provide power during a power outage or wildfire and to replace the temporary generator currently stationed at the site.

Psomas designed the Santiago Canyon Area BPS Generators Project and is currently providing engineering services during construction for the project. Staff requested Psomas provide a proposal for design services and engineering services during construction to construct a permanent generator. Psomas submitted Variance No. 5 in the amount of \$28,240 to design the generator installation and to provide survey and engineering services during construction. Staff reviewed the variance and believes the fee is reasonable. Psomas Variance No. 5 is attached as Exhibit "B".

FISCAL IMPACTS:

Project 11667 (4146) is not included in the FY 2012-13 Capital Budget. Staff requests the addition of Project 11667 (4146) to the FY 2012-13 Capital Budget and approval of an Expenditure Authorization to fund Variance No. 5 as shown in the table below and in Exhibit "C".

Project No.	Current Budget	Addition <Reduction>	Total Budget	Existing EA	This EA Request	Total EA Request
11667 (4146)	\$ -0-	\$293,700	\$293,700	\$ -0-	\$68,200	\$68,200

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on November 14, 2012.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE ADDITION OF PROJECT 11667 (4146) IN THE AMOUNT OF \$293,700 TO THE FY 2012-13 CAPITAL BUDGET; APPROVE AN EXPENDITURE AUTHORIZATION IN THE AMOUNT OF \$68,200 FOR PROJECT 11667 (4146); AND AUTHORIZE THE GENERAL MANAGER TO EXECUTE VARIANCE NO. 5 IN THE AMOUNT OF \$28,240 WITH PSOMAS FOR THE PORTOLA ZONE 9 BOOSTER PUMP STATION GENERATOR, PROJECT 11667 (4146).

LIST OF EXHIBITS:

- Exhibit "A" – Location Map
- Exhibit "B" – Psomas Variance No. 5
- Exhibit "C" – Expenditure Authorization

EXHIBIT "A"

Portola Zone 9 Booster Pump Station

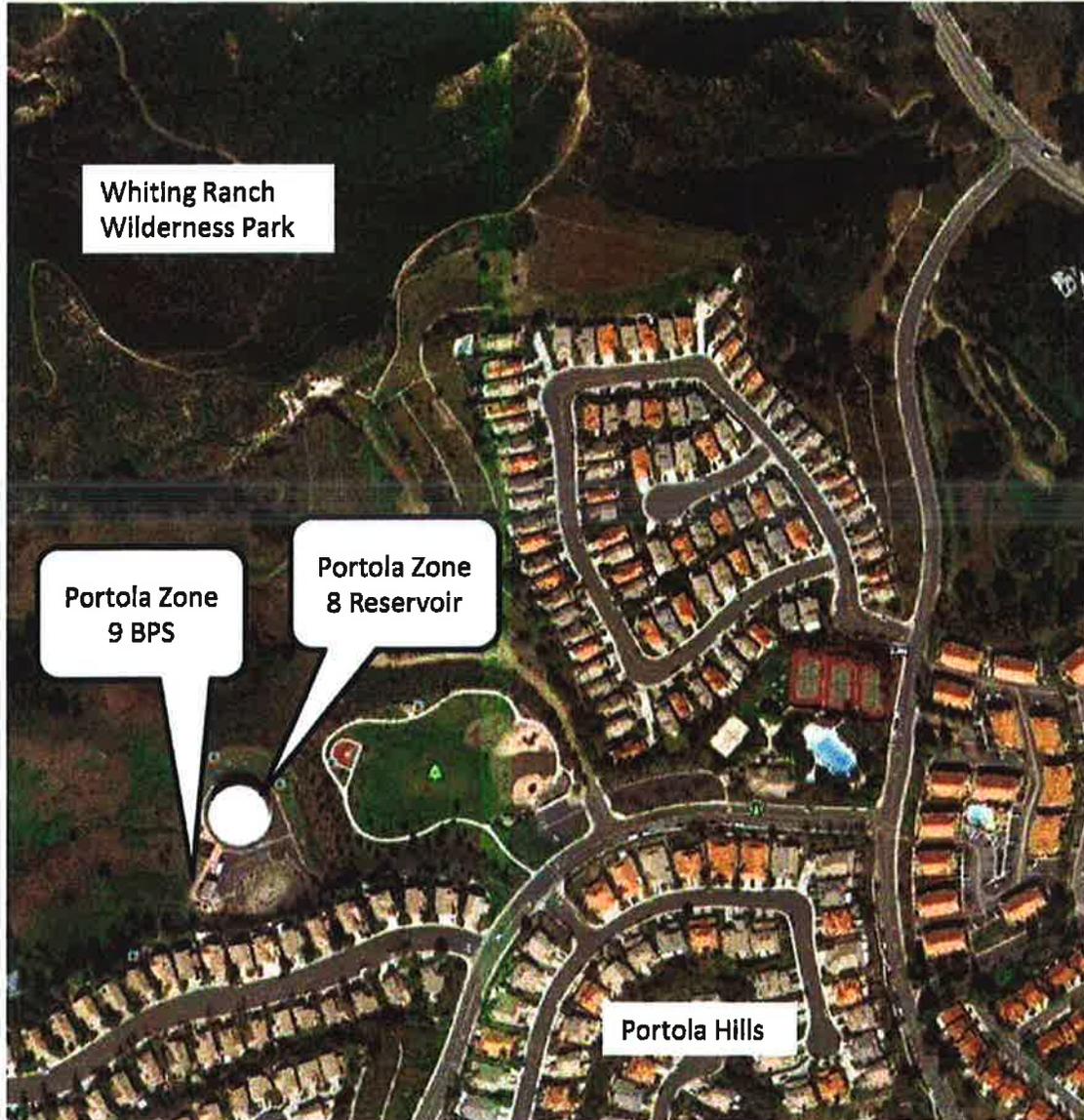


EXHIBIT "B"

P S O M A S

Balancing the Natural and Built Environment

October 31, 2012

Mr. Harry Cho, P.E.
Irvine Ranch Water District
3512 Michelson Drive
Irvine, CA 92612-1799

Subject: Santiago Canyon Area BPS Permanent Generators Project PR 11476
Request for Professional Services Variance No. 5
Additional Design and Construction Phase Services

Dear Mr. Cho:

INTRODUCTION

Pursuant to our discussion and site visit at the Portola Hills Booster Pump Station (BPS) site, this letter provides our estimated labor hours and fee for providing additional work items required to include this site as part of the Santiago Canyon Area BPS Permanent Generators Project.

ADDITIONAL DESIGN SERVICES

We anticipate the following additional design services will be required:

- Portola Hills BPS Site – Prepare civil and electrical plans to design a permanent generator at the Portola Hills Booster Pump Station site including concrete equipment pad, CMU wall, minor appurtenances and electrical wiring/connections.

The base files will be prepared from IRWD provided CAD files from the Portola Hills Zone 9 BPS Reconstruction plans prepared in 2008. We will review the existing base, incorporate into the plan set and perform a field investigation to verify dimensions and existing items that will be shown on the plans. We will size the generator, design the concrete pad, incorporate noise attenuation features and appurtenant items for electrical connections to prepare the additional plans. We will also prepare a cost estimate for the additional site. Plans and specifications will be reviewed and modified as a delta to the current project documents.

We will prepare a 100% Design package for review by IRWD and incorporate any District comments in the Final Design package.

3 Hutton Centre Drive
Suite 200
Santa Ana, CA 92707

Tel 714.751.7373
Fax 714.545.8883
www.psoma.com

Mr. Harry Cho
Page 2
October 31, 2012
2IRV140138/01

ADDITIONAL CONSTRUCTION SERVICES

Additional services to be provided include:

- Our current contract includes review of approximately 40 shop drawings. To date, we have reviewed a total of 46 shop drawings, therefore we have budgeted time to review (and 2nd review if necessary) an additional 8 shop drawings.
- We have budgeted time to review up to 4 RFIs.
- We have budgeted time to assist in reviewing the Contractor's Air Quality Management District (AQMD) permit application package for this additional site.
- Provide construction staking for generator pad and CMU block wall. The construction staking will be based upon the relationship with the westerly face of the building. Stakes will be horizontal only; no grades provided. All proposed improvements will be parallel or perpendicular to the westerly building face and tied to the building corners.
- Provide record drawings based on Contractor's redlines for the Portola Hills BPS site.

Exclusions:

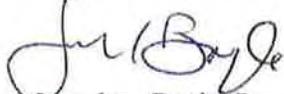
- Triple Switch will be provided by IRWD and installed by the contractor
- SCADA modifications and programming is by IRWD

We respectfully request an increase in the budget of \$28,240 to provide the additional services described above. Our proposed labor hours and fee are included in the attached table. A draft of the Professional Services Variance No. 5 is attached for your review.

If you have any questions or require additional information, please do not hesitate to call.

Sincerely,

PSOMAS



Joseph L. Boyle, P.E.
Vice President/Senior Project Manager



Neha Gajjar, P.E.
Project Manager

Encl.
JLB:NG:vs

**IRVINE RANCH WATER DISTRICT
PROFESSIONAL SERVICES VARIANCE**

Project Title: Santiago Canyon Area Booster Pump Station Permanent File No.: _____
Generators Date: October 31, 2012
 Project No.: PR 11476 Variance No.: Five
 Purchase Order No.: 127962 Project No. 2IRV140138 00001

Originator: IRWD ENGINEER/CONSULTANT Other (Explain) _____

Description of Variance (attach any back-up material):

Prepare plans and modify specifications to include the design of a permanent generator at the Porthola Hills site. Provide review of RFIs, shop drawing review, construction staking and record drawings for this additional site. See attached letter.

Engineering & Management Cost Impact:

Classification	Manhours	Billing Rate	Labor \$	Direct Costs	Subcon. \$	Total \$
Project Manager	31	174	5,046	0	0	5,394
QA/QC	8	196	1,568	0	0	1,568
Professional Engineer	25	117	2,925	200	0	3,125
CADD	26	118	2,832	0	0	3,068
Project Assistant	9	65	585	0	0	585
Survey	12	210.83	2,530	90	0	2,620
Electrical Engineer	62	-	-	-	\$7,980	\$7,980
Geotechnical	26	-	-	-	\$3,900	\$3,900
Total \$ =						28,240

Schedule Impact:

Task No.	Task Description	Original Schedule	Schedule Variance	New Schedule
2&3	Design & Construction	New Project Site	N/A	N/A

Required Approval Determination:

Total Original Contract	\$ <u>178,757</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 type="checkbox"/> Board: Single Variance greater than \$60,000. <input checked="" type="checkbox"/> Board: Cumulative total of Variances greater than \$60,000, or 30% of the original contract, whichever is higher.
Previous Variances \$	<u>92,741</u>	
This Variance \$	<u>28,240</u>	
Total Sum of Variances	\$ <u>120,981</u>	
New Contract Amount	\$ <u>299,738</u>	
Percentage of Total Variances to Original Contract	<u>67%</u>	

ENGINEER/CONSULTANT: Psomas
Company Name

[Signature] Date 10/31/12

[Signature] Date 10/31/12

IRVINE RANCH WATER DISTRICT

[Signature] Date 11/7/12
Department Director

General Manager/Comm./Board Date

**IRVINE RANCH WATER DISTRICT
PROFESSIONAL SERVICES VARIANCE REGISTER**

Project Title: <u>Santiago Canyon Area Booster Pump Station Permanent Generators</u>				
Project No.: <u>PR 11476</u> Project Manager: <u>Harry Cho</u>				
Variance No.	Description	Dates		Variance Amount
		Initiated	Approved	
One	Additional electrical engineering design services to replace aged electrical panels and MCC's at the Shaw and Read Booster Pump Stations. Additional office and field survey required to establish control at Shaw BPS after survey monuments were destroyed by others, to research property boundary issues at Manning Treatment Plant and BPS, and to provide additional topographic survey at the Fleming BPS storage yard. Additional site engineering design services to prepare retaining wall plans and details at the Manning site.	3/16/2011	4/5/11	\$28,923
Two	Additional site engineering design services to replace the valve before the pump manifold and add a bypass tee, valve and drain line to the 8-inch suction pipe at the Manning Treatment Plant and BPS site. The valves should be remotely operable. Additional electrical engineering design to remotely operate the two new valves.	10/3/11	10/6/11	\$19,398
Three	Additional miscellaneous work effort including, updating specifications, new RTU sheets, Williams site gate relocation, Shaw site retaining wall evaluation, antenna utility pole design, incorporating irrigation plans to base map at Manning, and evaluating and designing modulating valve at Manning site	1/23/12	1/31/12	\$11,052
Four	Bid period assistance, additional shop drawing review, coordination and review of AQMD permit packages and construction surveying	4/26/12	6/28/12	\$33,368

Five	Prepare plans and modify specifications to include the design of a permanent generator at the Portola Hills site. Provide review of RFIs, shop drawing review, construction staking and record drawings for this additional site.	10/31/12		\$28,240
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IRVINE RANCH WATER DISTRICT
Santiago Canyon Booster Pump Station Generators Project
 Engineering Services Proposal
 Variance No. 5
 Estimated Labor Hours and Fees

Scope of Work / Tasks	In-Scope Labor Hours								Total Hours	Subcontractors				Total Hours	Direct Costs	Total Fee
										Electrical		Geotechnical				
	PM	QC	SD	PU	RW	CADD	PA	Survey		Hours	\$	Hours	\$			
TASK 1 - Preliminary Design Report																
1.1 Right-of-Way	6	0	0	4	30	0	0	0	40	\$6,640	0	\$0	0	40	\$0	\$6,640
1.2 Right Surveys	2	0	0	0	0	0	0	0	2	\$19,400	0	\$0	0	2	\$0	\$19,400
1.3 Utility Review	4	0	0	16	0	0	0	0	20	\$3,080	0	\$640	0	20	\$3,720	\$3,720
1.4 Geotechnical Review	2	0	0	0	0	0	0	0	2	\$660	0	\$0	0	2	\$0	\$660
1.6 Optional Geotechnical Investigation (See Optional Items Below)	0	0	0	0	0	0	0	0	0	\$0	0	\$18,000	0	0	\$18,000	\$18,000
1.6 Generator Selection	8	1	0	0	0	0	0	0	11	\$2,850	15	\$3,100	0	26	\$5,950	\$5,950
1.7 Conceptual Layout	12	2	4	4	0	0	0	0	22	\$8,300	0	\$0	0	22	\$0	\$8,300
1.8 Electrical Instrumentation	10	0	2	3	0	0	0	0	15	\$1,940	0	\$0	0	15	\$0	\$1,940
1.9 Permits	4	0	0	24	0	0	0	0	28	\$4,020	0	\$0	0	28	\$0	\$4,020
1.10 CMOA Documentation	12	0	4	8	0	0	2	0	26	\$3,780	0	\$0	0	26	\$0	\$3,780
1.11 Project Schedule	6	0	0	0	0	0	0	0	6	\$1,040	0	\$0	0	6	\$0	\$1,040
1.12 Estimation of Probable Construction Costs	4	0	4	0	0	0	0	0	8	\$1,330	0	\$0	0	8	\$0	\$1,330
1.13 Meetings (4 mgs)	8	0	0	0	0	0	0	0	8	\$1,370	0	\$640	0	8	\$730	\$1,370
1.14 Deliverables	12	0	4	0	0	0	0	0	16	\$4,180	0	\$0	0	16	\$0	\$4,180
1.15 Weekly and Monthly Status Reports	4	0	0	0	0	0	0	0	4	\$690	0	\$0	0	4	\$0	\$690
1.16 QA/QC and Constructability Review	0	2	0	0	0	2	0	0	4	\$2,370	0	\$0	0	4	\$0	\$2,370
Subtotal Task 1	92	11	28	88	38	0	2	0	143	\$61,660	15	\$16,620	0	158	\$16,620	\$78,280
TASK 2 - Final Design																
2.1 Construction Drawings	32	0	8	0	0	80	0	0	120	\$16,270	0	\$11,690	0	120	\$11,690	\$27,960
2.2 Project Manual	16	0	0	0	0	0	4	0	20	\$1,040	7	\$960	0	27	\$0	\$4,000
2.3 Final Design Deliverables																
a. 75% Design Submittal	4	2	0	0	0	2	0	0	10	\$1,450	0	\$0	0	10	\$200	\$1,650
b. 90% Design Submittal	4	2	0	0	0	2	0	0	10	\$1,450	0	\$780	0	10	\$160	\$2,230
c. 100% Design Submittal	4	2	0	0	0	2	0	0	10	\$1,450	0	\$780	0	10	\$160	\$2,230
d. As-built and Original Project Manual	2	2	0	0	0	2	4	0	10	\$1,340	0	\$0	0	10	\$500	\$1,840
2.4 Project Meetings (4 mgs)	8	0	0	0	0	0	0	0	8	\$1,370	10	\$1,380	0	18	\$1,000	\$2,720
2.5 Right-of-Way Legal Descriptions	0	0	0	0	23	0	0	0	23	\$3,100	0	\$60	0	23	\$0	\$3,160
2.6 Permits	12	0	0	40	0	0	0	0	52	\$7,160	10	\$1,320	0	62	\$400	\$8,880
2.7 Project Schedule	6	0	0	0	0	0	0	0	6	\$1,040	0	\$0	0	6	\$0	\$1,040
2.8 Liquidated Damages Calculations	4	0	3	0	0	0	0	0	7	\$1,360	0	\$0	0	7	\$0	\$1,360
2.9 Construction Cost Estimates	4	1	4	0	0	0	0	0	9	\$1,870	7	\$940	0	16	\$0	\$2,810
2.10 Disposal Assistance (2 Affidavits)	0	0	4	0	0	0	0	0	4	\$2,420	16	\$2,070	0	20	\$44	\$4,490
Subtotal Task 2	108	9	18	0	41	88	2	0	234	\$43,890	183	\$19,760	0	317	\$2,300	\$63,950
TASK 3 - Construction Phase Services																
3.1 Project Meetings (6 mgs)	16	2	0	0	0	0	0	0	18	\$3,170	0	\$0	0	18	\$190	\$3,360
3.2 Contractor's Requests for Information (6 RFI's)	6	1	4	0	0	0	0	0	11	\$2,570	4	\$480	0	15	\$350	\$3,100
3.3 Minor Plan Revisions	8	0	0	0	0	12	0	0	20	\$2,800	0	\$0	0	20	\$50	\$2,850
3.4 Site Visits (2 Visits of 3 hrs each)	8	0	0	0	0	0	0	0	8	\$1,560	5	\$640	0	13	\$150	\$2,350
3.5 Shop Drawing Review (12 each)	8	0	4	12	0	0	0	0	24	\$3,420	11	\$1,390	0	35	\$350	\$5,160
3.6 Record Drawings	6	0	0	0	0	0	0	0	6	\$2,760	10	\$1,270	0	16	\$400	\$4,430
Subtotal Task 3	62	3	8	16	0	12	0	0	114	\$16,320	29	\$3,780	0	143	\$1,600	\$21,100
Variance No. 1																
1.8 Electrical Instrumentation	9	0	0	0	0	0	0	0	9	\$0	19	\$2,500	0	28	\$0	\$2,500
3.1 Construction Drawings & Details for Retaining Wall at Manning	4	2	16	0	0	30	4	0	56	\$7,410	0	\$0	0	56	\$0	\$7,410
3.1 Electrical Construction Drawings	1	0	0	0	0	0	0	0	1	\$170	0	\$7,300	0	1	\$0	\$7,470
3.2 Electrical Technical Specifications	1	0	0	0	0	0	0	0	1	\$170	0	\$400	0	1	\$0	\$570
3.2 Electrical Construction Cost Estimating	0	0	0	0	0	0	0	0	0	\$0	3	\$250	0	3	\$0	\$250
3.2 Electrical RFIs	0	0	0	0	0	0	0	0	0	\$0	3	\$200	0	3	\$0	\$200
3.5 Electrical Shop Drawing Review	0	0	0	1	0	0	0	0	1	\$170	0	\$600	0	1	\$0	\$770
3.6 Electrical Record Drawings	0	0	0	0	0	2	0	0	2	\$130	3	\$310	0	5	\$0	\$440
1.1 Right-of-Way Surveying	1	0	0	0	16	0	0	0	17	\$2,330	0	\$0	0	17	\$0	\$2,330
1.2 Site Surveying - Additional Survey of Show and Manning	0	0	0	0	0	0	0	24	24	\$3,100	0	\$0	0	24	\$0	\$3,100
1.3 Site Surveying - Additional Survey at Storm/Storage Yard	0	0	0	0	0	0	0	20	20	\$2,420	0	\$0	0	20	\$0	\$2,420
Subtotal Variance No. 1	7	2	16	1	16	32	4	2	58	\$17,070	21	\$11,780	0	79	\$100	\$28,950
Variance No. 2																
1.7 Conceptual Layout	8	2	4	0	0	0	0	0	14	\$2,410	0	\$0	0	14	\$0	\$2,410
2.1 Construction Drawings & Hyphas Details @ Manning/Site Visit	16	0	12	0	0	44	0	0	72	\$9,870	0	\$0	0	72	\$200	\$10,070
3.1 Electrical Construction Drawings	1	0	0	0	0	0	0	0	1	\$170	21	\$2,760	0	22	\$0	\$2,930
3.2 Mechanical Technical Specifications	2	0	2	0	0	0	0	0	4	\$660	0	\$0	0	4	\$0	\$660
3.2 Electrical Technical Specifications	1	0	0	0	0	0	0	0	1	\$170	1	\$150	0	2	\$0	\$320
3.9 Mechanical Construction Cost Estimating	2	0	0	3	0	0	0	0	5	\$540	0	\$0	0	5	\$0	\$540
3.9 Electrical Construction Cost Estimating	2	0	0	0	0	0	0	0	2	\$170	1	\$100	0	3	\$0	\$270
3.3 Mechanical RFIs (2 RFI's)	2	1	1	2	0	0	0	0	6	\$930	0	\$0	0	6	\$0	\$930
3.5 Mechanical Shop Drawing Review (2 each)	1	0	1	3	0	0	0	0	4	\$660	0	\$0	0	4	\$0	\$660
3.6 Mechanical Record Drawings	1	0	0	0	0	3	0	0	4	\$410	0	\$0	0	4	\$0	\$410
3.6 Electrical Record Drawings	0	0	0	0	0	3	0	0	3	\$120	0	\$0	0	3	\$0	\$120
Subtotal Variance No. 2	38	3	20	5	0	48	2	0	112	\$16,890	23	\$3,000	0	135	\$300	\$19,990
Variance No. 3																
2.1 Construction Drawings (Wall Eval/Post Detail/Tr Plans/Sodal Vty)	16	0	4	0	0	16	0	0	36	\$6,320	0	\$0	0	36	\$100	\$6,420
2.1 Electrical Construction Drawings	0	0	0	0	0	2	0	0	2	\$330	15	\$2,000	0	17	\$200	\$2,430
3.2 Mechanical Technical Specifications	0	0	1	14	0	0	0	0	15	\$1,780	0	\$0	0	15	\$0	\$1,780
Subtotal Variance No. 3	16	0	5	14	0	18	0	0	34	\$8,430	15	\$2,000	0	49	\$300	\$11,660
Variance No. 4																
2.10 Disposal Assistance	8	2	0	8	0	16	0	0	34	\$4,600	0	\$0	0	34	\$0	\$4,600
3.5 Shop Drawing Review (28 each)	28	2	10	36	0	0	4	0	78	\$9,920	3	\$400	0	81	\$75	\$10,395
3.7 As-built (RWD in Review of AQMD Application Package)	6	1	2	24	0	0	2	0	35	\$4,940	0	\$0	0	35	\$200	\$5,140
3.9 Construction Staking	4	0	0	0	0	4	2	0	10	\$12,890	0	\$0	0	10	\$0	\$12,890
Subtotal Variance No. 4	46	5	12	68	0	20	2	0	151	\$32,350	3	\$400	0	154	\$950	\$33,700
Variance No. 5																
1.8 Geotechnical Investigation	3	0	0	0	0	2	0	0	5	\$880	0	\$0	26	31	\$0	\$4,480
2.1 Construction Drawings (Open Hill Site)	12	2	0	0	0	20	4	0	38	\$5,100	47	\$6,140	0	85	\$0	\$11,240
2.2 Project Manual (modify as needed)	1	0	0	4	0	0	0	0	5	\$720	1	\$160	0	6	\$0	\$880
2.4 Project Meeting (1 meeting)	3	2	0	0	0	0	0	0	5	\$740	0	\$0	0	5	\$0	\$740
2.9 Cost Estimate	1	0	0	1	0	0	0	0	2	\$290	0	\$660	0	2	\$0	\$950
3.2 Contractor's Requests for Information (4 RFI's)	4	2	0	4	0	0	0	0	10	\$1,630	3	\$330	0	13	\$0	\$1,960
3.																

IRVINE RANCH WATER DIS' EXHIBIT "C"

Expenditure Authorization

Project Name: PORTOLA ZN 9 BPS EMERGENCY GENERATOR

EPMS Project No: 11667 **EA No:** 1

Oracle Project No: 4146

Project Manager: CORTEZ, MALCOLM

Project Engineer: CHO, HARRY

Request Date: November 7, 2012

ID Split: Miscellaneous

Improvement District (ID) Allocations

ID No.	Allocation %	Source of Funds
153	57.9	BONDS YET TO BE SOLD**
186	16.9	BONDS YET TO BE SOLD**
188	16.9	BONDS YET TO BE SOLD**
189	8.3	BONDS YET TO BE SOLD**
Total	100.0%	

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$68,200
Total EA Requests:	\$68,200
Previously Approved Budget:	\$0
Budget Adjustment Requested this EA:	\$293,700
Updated Budget:	\$293,700
Budget Remaining After This EA	\$225,500

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	25,000	0	25,000	25,000	0	25,000	11/12	1/13
ENGINEERING DESIGN - OUTSIDE	30,000	0	30,000	30,000	0	30,000	11/12	1/13
DESIGN STAFF FIELD SUPPORT	5,000	0	5,000	5,000	0	5,000	11/12	1/13
ENGINEERING - CA&I IRWD	0	0	0	20,000	0	20,000	2/13	6/13
ENGINEERING - CA&I OUTSIDE	0	0	0	30,000	0	30,000	2/13	6/13
CONSTRUCTION FIELD SUPPORT	0	0	0	5,000	0	5,000	2/13	6/13
CONSTRUCTION	0	0	0	150,000	0	150,000	2/13	6/13
LEGAL	2,000	0	2,000	2,000	0	2,000	11/12	6/13
Contingency - 10.00% Subtotal	\$6,200	\$0	\$6,200	\$26,700	\$0	\$26,700		
Subtotal (Direct Costs)	\$68,200	\$0	\$68,200	\$293,700	\$0	\$293,700		
Estimated G/A - 180.00% of direct labor*	\$54,000	\$0	\$54,000	\$99,000	\$0	\$99,000		
Total	\$122,200	\$0	\$122,200	\$392,700	\$0	\$392,700		
Direct Labor	\$30,000	\$0	\$30,000	\$55,000	\$0	\$55,000		

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

EA Originator:

Harry Cho 11/7/12

Department Director:

Kevin L. Burton 11/7/12

Finance:

Board/General Manager:

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$401,000. The above-captioned project is further described in the attached staff report and additional documents, if any, which are hereby incorporated by reference. This declaration of official intent to reimburse costs of the above-captioned project is made under Treasury Regulation Section 1.150-2.

08
November 28, 2012

Prepared by: S. Malloy

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

Approved by: Paul Cook

CONSENT CALENDAR

MICHELSON WATER RECYCLING PLANT CONTRACT CHANGE ORDER AND VARIANCE

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 CCO No. 83 with Filanc in the credit amount of \$228,007.95 due to final quantity adjustment of the sewer and floodwall piles for MWRP Phase 2 Expansion and Flood Protection Improvements; and
- Approve Variance No. 2 with Delta Systems in the amount of \$70,000 for additional SCADA programming for the MWRP Phase 2 Expansion.

BACKGROUND:

Construction of the MWRP Phase 2 Expansion and Flood Protection Improvements project was awarded to Filanc 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 of San Diego Creek. A project overview diagram of the MWRP Phase 2 Expansion is attached as Exhibit "A".

Contract Change Order No. 83:

CCO No. 83 is for the final quantity adjustments for the following three Bid Items:

- No. A.07 – Predrilled Precast Prestressed Concrete Drive Piles – Influent Sewer Piles;
- No. B.01 – Precast Prestressed Concrete Driven Piles – Wall Piles; and
- No. B.02 – Predrilled Precast Prestressed Concrete Driven Piles – Wall Piles.

The adjustments were due to differing site conditions. This change order credit amount represents a 6.8% decrease from the original \$3,326,150 amount for the bid items. CCO No. 83 is attached as Exhibit "B".

The Change Order summary is attached as Exhibit "C". The amount of all change orders in this construction project is \$3,394,845.33 (3.9% of the original bid). The amount of change orders directly related to Phase 2 Expansion and Flood Protection Improvements is \$2,105,031.69 (2.4% of the original bid). Change orders for other projects, such as the biosolids project, account for the difference.

Variance No. 2 with Delta Systems:

Staff requested Delta modify some methods used to integrate existing plant controls into the new plant wide control system provided by the project. The changes required Delta to modify and retest several operator interface screens for the existing areas of the plant. The change benefits operating staff by enhancing the overall plant control screens. The revised screens are identified by their related PLCs in Delta's Variance No. 2 which is attached as Exhibit "D". Additionally, Delta performed extra programming for process control related to the GE Zenon MBR system.

FISCAL IMPACTS:

The MWRP Biosolids and Energy Recovery Facilities Project 20847 (1617) is included in the FY 2012-13 Capital Budget. The existing budgets and Expenditure Authorizations are sufficient to fund CCO No. 81.

The MWRP Phase 2 Expansion Project 20214 (1599), 30214 (1706) and Flood Protection Improvements Project 20542 (1150), 30542 (1118) are included in the FY 2012-13 Capital Budget. The existing budgets and Expenditure Authorizations are sufficient to fund CCO No. 83 and Variance No. 2.

ENVIRONMENTAL COMPLIANCE:

The MWRP Biosolids and Energy Recovery Facilities project 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 (SEIR) has been prepared. The SEIR, SCH #2011031091, was certified by IRWD, the lead agency, on October 22, 2012.

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 IRWD, the lead agency, on February 27, 2006.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on November 14, 2012.

RECOMMENDATION:

THAT THE BOARD APPROVE CONTRACT CHANGE ORDER NO. 83 WITH J. R. FILANC CONSTRUCTION, CO. IN THE CREDIT AMOUNT OF \$228,007.95 DUE TO FINAL QUANTITY ADJUSTMENT OF THE SEWER AND FLOODWALL PILES FOR MWRP PHASE 2 EXPANSION AND FLOOD PROTECTION IMPROVEMENTS, PROJECTS 20214 (1599), 20542 (1150), 30214 (1706), AND 30542 (1118); AND APPROVE VARIANCE NO. 2 WITH DELTA SYSTEMS IN THE AMOUNT OF \$70,000, FOR ADDITIONAL SCADA PROGRAMMING FOR THE MWRP PHASE 2 EXPANSION, PROJECTS 20214 (1599) and 30214 (1706).

LIST OF EXHIBITS:

Exhibit "A" – Location Map

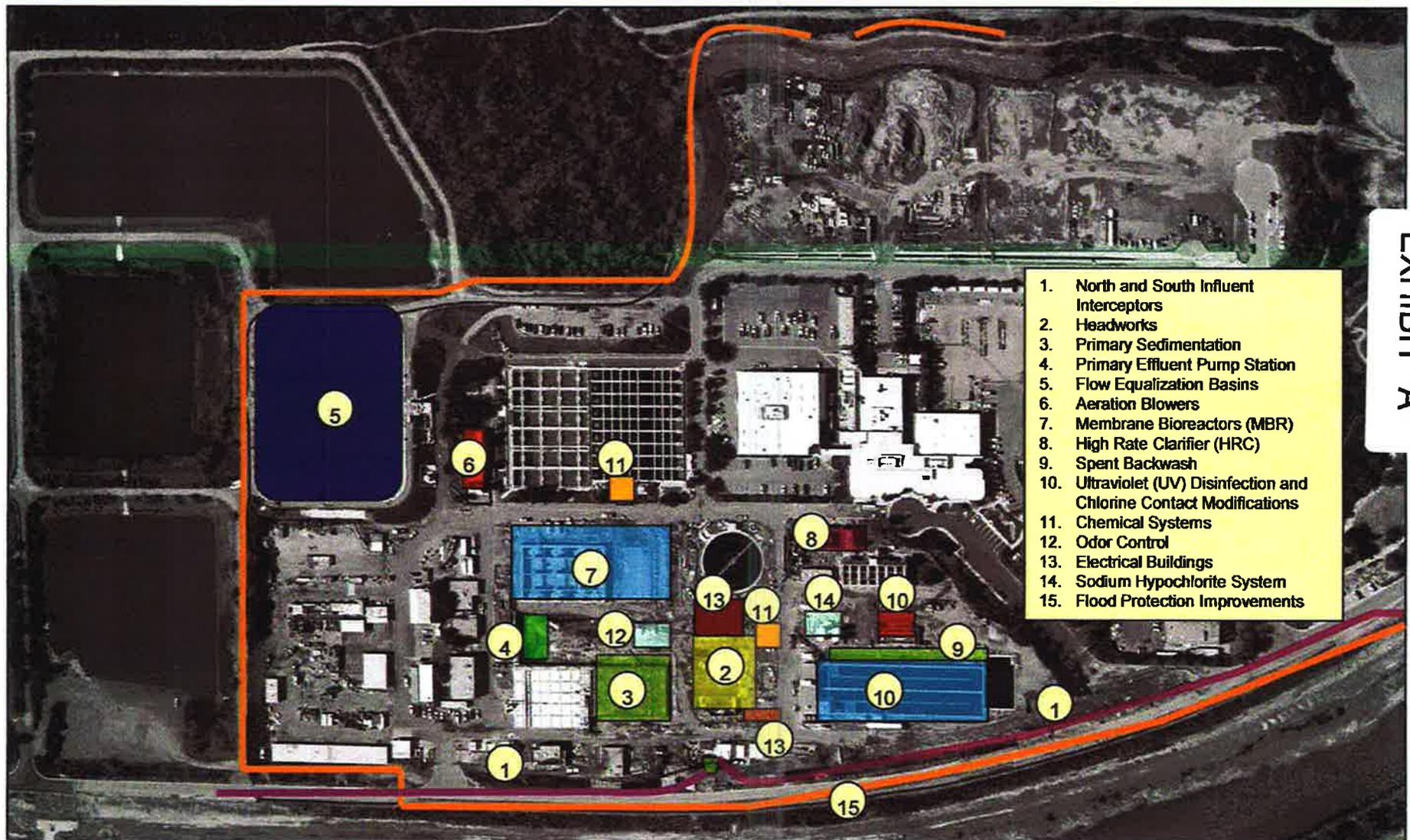
Exhibit "B" – Contract Change Order No. 83

Exhibit "C" – Contract Change Order Summary

Exhibit "D" – Variance No. 2 with Delta Systems Inc.



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 "A"

EXHIBIT "C"

**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
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 – Demolish 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	\$ 66,355.57					0					
4.2	Upsizing Soft Starters for Area 700 Blowers from 350 to 450 hp	C	\$ 41,529.75					0					
4.3	Infrared Windows to Measure Stray Currents	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					

**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
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			\$6,963.45	-\$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				
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				

**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
13	Approved by AGM Approved on April 28, 2010 13.1 Modifications in Checkered Aluminum Plates at the Headworks Area (CR 037)	C	\$34,095.00	\$34,095.00	-\$873,828.95	-\$839,733.95	-1.0%	\$86,639,716.05	0	0	0	1,094	8/1/2012
14	Approved by Director of Engineering and Construction Approved on May 4, 2010 14.1 Electrical Substation Work (Two additional 5-inch Conduits and Connection btwn IRWD and SCE) (CR 028)	A	\$16,655.10	\$16,655.10	-\$839,733.95	-\$823,078.85	-0.9%	\$86,656,371.15	0	0	0	1,094	8/1/2012
15	Approved by AGM Approved on May 21, 2010 15.1 Credit for Not Relocating the 18-inch diameter drain line at HRC (CR #019) 15.2 Credit for Slab Penetration Modifications, Detail P17 (RFI 0102) (CR #032)	A A	(\$42,262.00) (\$6,745.95)	-\$49,007.95	-\$823,078.85	-\$872,086.80	-1.0%	\$86,607,363.20	0	0	0	1,094	8/1/2012
16	Approved by Director of Engineering and Construction Approved on May 25, 2010 16.1 Abandonment of 6" Pipes at MBR Screen Area (CR 042) 16.2 Addition of Three Transformers at UV Disinfection Facility (RFI 0149) 16.3 Remove encasement on existing utilities to allow construction of future Primary Sedimentation Tanks (CR 051)	B C B	\$2,536.36 \$18,633.63 \$1,188.43	\$22,358.42	-\$872,086.80	-\$849,728.38	-1.0%	\$86,629,721.62	0	0	0	1,094	8/1/2012
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 \$1,173.07 \$7,240.64	\$16,058.68	-\$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

**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
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 Wall 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
24	Approved by Engineering and Operations Committee Approved on September 21, 2010 24.1 UVE Piping Modifications at Chlorine Contact Tanks (CR 056)	A	(\$52,172.00)	-\$52,172.00	-\$505,513.56	-\$557,685.56	-0.6%	\$86,921,764.44	0	0	0	1,094	8/1/2012
25	Approved by Board of Directors Approved on September 27, 2010 25.1 Modifications to Campus Drive Entrance (CR 022)	A	\$186,651.45	\$186,651.45	-\$557,685.56	-\$371,034.11	-0.4%	\$87,108,415.89	0	0	0	1,094	8/1/2012
26	Approved by Director of Engineering and Construction Approved on October 20, 2010 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] 26.2 Existing Primary Sludge Pump Room Demolition and Modifications (CR 076) [PR 20214, 30214] 26.3 Fence Repair at SCE Substation (CR 078) [PR 20214, 30214] 26.4 SHC Electrical and Controls and Milestone Revisions (CR 079) [PR 20214, 30214] 26.5 Change to more Energy Efficient Air Conditioning Units (Five Total) (Submittal 15604-001) (CR 081) [PR 20214, 30214] 26.6 Grouting of the Sodium Hypochlorite Tanks at their Permanent Site (CR 084) [PR 20214, 30214]	A C B B A A	\$1,539.18 \$3,909.94 \$1,957.62 \$324.07 \$9,101.41 \$2,560.52	\$19,392.74	-\$371,034.11	-\$351,641.37	-0.4%	\$87,127,808.63	0	0	0	1,094	8/1/2012
27	Approved by Engineering & Operations Committee Approved on November 4, 2010 27.1 Primary Sedimentation Tanks Flo-Clip Baffles Value Engineering (CR 080)	A	(\$58,157.82)	-\$58,157.82	-\$351,641.37	-\$409,799.19	-0.5%	\$87,069,650.81	0	0	0	1,094	8/1/2012
28	Approved by GM Approved on November 24, 2010 28.1 Ducts for Future Phase 3 MBR (RFI 44) (RFI 016) 28.2 Sodium Hypochlorite LCP Modifications (CR 071)	A A	\$32,021.80 \$7,503.44	\$39,525.24	-\$409,799.19	-\$370,273.95	-0.4%	\$87,109,176.05	0	0	0	1,094	8/1/2012

**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
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					
29.2	Electrical Conduit Installation near MWRP Phase 2 Trailers (Unforeseen Conditions) (CR 077)	B	\$9,889.88					0					
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	\$20,880.97					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%	\$87,242,961.50	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 (RFI 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	\$350,685.85					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					

**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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	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				
34	Approved by Director of Engineering & Construction Approved on March 23, 2011			\$21,844.56	\$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			\$23,514.97	\$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	\$14,011.85						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				

**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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		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
38	Approved by Director of Engineering and Construction Approved on May 30, 2011			\$24,692.00	\$206,124.83	\$230,816.83	0.3%	\$87,710,266.83	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					
39	Approved by Engineering & Operations Committee Approved on June 21, 2011			\$60,515.80	\$230,816.83	\$291,332.63	0.3%	\$87,770,782.63	0	0	0	1,094	8/1/2012
39.1	Additional Architectural Modifications at High Rate Clarifier (CR-082) [PR 20214, 30214]	A	\$60,515.80					0					
40	Approved by Director of Engineering and Construction Approved on June 23, 2011			\$23,214.05	\$291,332.63	\$314,546.68	0.4%	\$87,793,996.68	0	0	0	1,094	8/1/2012
40.1	Double Containment Piping Modification for Sodium Hypochlorite System (CR-095) [PR 20214, 30214/Oracle 1599,	A	\$16,157.16					0					
40.2	Change of Enclosure from NEMA 4 to NEMA 4X SS for Chopper Pumps in CR-097 (CR-133) [PR 20214,	A	\$1,347.00					0					
40.3	Sodium Hypochlorite Tank Pad at PST Odor Control (CR-146) [PR 20214, 30214/Oracle 1599, 1706]	B	\$5,709.89					0					
41	Approved Assistant GM Approved on June 24, 2011			\$48,005.26	\$314,546.68	\$362,551.94	0.4%	\$87,842,001.94	0	0	0	1,094	8/1/2012
41.1	MPS-2 replacement of existing valves (NOPE #4) (CR-126) [PR 20214, 30214/Oracle 1599, 1706]	A	\$35,068.26					0					
41.2	Graybar Modifications per RFI 372 (CR-144) [PR 20214, 30214/Oracle 1599, 1706]	A	\$3,429.00					0					
41.3	Steel Joists Modifications Due to Additional Load Requirements per Submittal 05221-001 (CR-153) [PR 20214, 30214/Oracle	B	\$9,508.00					0					
42	Approved by Engineering & Operations Committee Approved on July 13, 2011			\$59,150.74	\$362,551.94	\$421,702.68	0.5%	\$87,901,152.68	0	0	0	1,094	8/1/2012
42.1	MBR Aeration and Permeate Piping Modifications (CR-048) [PR 20214, 30214/Oracle 1599, 1706]	B	\$59,150.74					0					
43	Approved by Board of Directors Approved on July 25, 2011			\$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
43.1	Pipelines and Utilities for Future Biosolids (CR-017) (PR 20847/Oracle 1617)	D	\$503,272.17					60					
43.2	Biosolids Sewer Force Main (CR-045) (PR 20847/Oracle 1617)	D	\$626,976.14					60					
43.3	Geotechnical Investigation at Staging Area 2 for Biosolids Project (CR 137) (PR 20847/Oracle 1617)	D	\$2,035.40					0					

**MWRP Phase 2 Expansion and Flood Protection Improvements
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44	Approved on Director of Engineering & Construction Approved on August 18, 2011			\$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
44.1	Chemical Systems Pump Pad Modifications (CR-105) (PR 20214,30214/Oracle 1599,1706)	A	\$1,833.71						0				
44.2	Installation of 6" Gate Valve and Change of Pipe Size on PW near SII Junction (CR-140) (PR 20214,30214/Oracle	A	\$9,141.00						0				
44.3	PLC-300 additional I/O to accommodate VFD change of Primary Sludge Pumps (PR 20214,30214/Oracle 1599,1706)	A	\$13,999.77						0				
44.4	Non-compensable time extension of Milestone 5 – Floodwall Installation delay due to FEMA review and regulatory compliance	B	\$0.00						0				
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 Monorail 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				

**MWRP Phase 2 Expansion and Flood Protection Improvements
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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				
49	Approved from Board of Directors Approved on October 24, 2011			\$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
49.1	Biosolids Indicator Piles (CR-175)/PR 20847 (1617)	D	\$318,886.24						0				
50	Approved by Director of Engineering & Construction Approved on November 21, 2011			\$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
50.1	Odor scrubber cleaning at Primary Sedimentation Tanks (CR-158) (PR 20214,30214/Oracle 1599,1706)	A	\$2,564.33						0				
50.2	Existing Ductbank Modifications (CR-185) (PR 20214,30214/Oracle 1599,1706)	A	\$13,764.46						0				
50.3	Additional Concrete Fillets at High Rate Clarifier (CR-188) (PR 20214,30214/Oracle 1599,1706)	A	\$8,629.05						0				
51	Approved by Director of Engineering & Construction Approved on November 22, 2011			\$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
51.1	Filter Pump Station-2(FPS-2) Potable Water Line Addition (CR-172) (PR 20214 (1599)/30214 (Oracle 1706))	A	\$6,296.80						0				
51.2	Pothole 8 Inch Drain Line from High Rate Clarifier to Manhole #3 (CR-197) (PR 20214 (1599)/30214 (Oracle 1706))	B	\$18,045.37						0				
52	Approved by Board of Directors Approved on December 12, 2011			\$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
52.1	36" Stormwater Pipeline for Biosolids (CR-174) (PR 20847)	D	\$284,442.00						0				
53	Approved by Director of Engineering & Construction Approved on December 8, 2011			\$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
53.1	Modifications to MBR Pump Room Drains and Valve Vaults (CR-096) (PR 20214/30214 (1599/1706))	C	\$8,460.88						0				
53.2	Central Electrical Building Masonry Veneer Modifications (CR-159) (PR 20214/30214 (1599/1706))	C	\$5,243.55						0				
53.3	Sodium Hydroxide Tank Pad Modifications (CR-161)	A	\$2,578.57						0				
53.4	Addition of Gutter and Downspout at Membrane Bioreactors Structure (CR-164) (PR 20214/30214 (1599/1706))	C	\$8,602.30						0				

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54	Approved by Director of Engineering & Construction Approved on December 9, 2011			\$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
54.1	Grit Pump and Mixer Power Feed Modifications (CR-115) (PR 20214,30214/Oracle 1599,1706)	A	\$3,764.78						0				
54.2	8-inch Plant Drain Residuals to Headworks Piping Modifications at High Rate Clarifier (CR-171) (PR 20214,30214/Oracle 1599,1706)	A	\$11,720.63						0				
54.3	Vault Drain Line to PEPS (CR-176) (PR 20214,30214/Oracle 1599,1706)	B	\$9,083.93						0				
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%	\$90,335,765.06	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%	\$90,360,080.81	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%	\$90,476,287.34	0	167	167	1,261	1/15/2013
57.1	Change from 2-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 Piles (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 Influent Interceptor Modifications (CR-169) (PR 20214,30214/Oracle 1599,1706)	B	\$24,975.26						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
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				
61	Approved by Engineering & Operations Committee Approved on March 20, 2012			\$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
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 1599,1706)	A	\$56,853.28						0				
62	Approved by Director of Engineering & Construction Approved on March 19, 2012			\$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
62.1	Additional Electrical Work to Site Glass for Scum Line at Primary Sludge Room (CR-044)(PR 20214,30214/Oracle 1599,1706)	C	\$3,247.25						0				
62.2	T12/T13 Substation Pad Modifications (CR-120)(PR 20214,30214/Oracle 1599,1706)	C	\$13,144.00						0				
62.3	Removal of ACP Pipe in Primary Sludge Room (CR-124) (PR 20214,30214/Oracle 1599,1706)	B	\$3,562.83						0				
62.4	Pressure Testing of 14-Inch Butterfly Valves at MPS-2 (CR-187) (PR 20214,30214/Oracle 1599,1706)	A	\$2,454.83						0				
62.5	Pipe Rental for Secondary Clarifier Bypass (CR-202) (PR 20214,30214/Oracle 1599,1706)	A	\$2,325.34						0				
62.6	Non-compensatory Time Extension of 117 Days for Milestone #5 - Floodwall Installation	B	\$0.00						0				
63	Approved by Director of Engineering & Construction Approved on March 26, 2012			\$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
63.1	Remove and Replace Existing Slide Gate at Backwash Supply Tank (CR-165)(PR 20214,30214/Oracle 1599,1706)	A	\$18,991.09						0				
63.2	HRC Polymer Storage & Feed System Modifications (CR-170)(PR 20214,30214/Oracle 1599,1706)	C	\$3,435.19						0				
63.3	Potholing for Utilities Not Shown on Drawings near MgOH Tanks (CR-211)(PR 20214,30214/Oracle 1599,1706)	C	\$2,298.35						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
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 Scour 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

**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
70	Approved by General Manager Approved on June 26, 2012 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			\$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
	71.1 Surge Tank Tower Cable and Conduit Repair and Relocation (CR-210) /Photocell for 3 nightlights at UV (CR-236) PR 30214	B	\$7,226.25						0				
	71.2 8" line stop for removal of existing 8" sewer line (CR 217) PR 20214 (1599)	B	\$6,200.00						0				
	71.3 Demolition of existing 24" SBW Pipe conflicting with new 8" SBW (CR 229) PR 20214 (1599)	B	\$4,277.45						0				
	71.4 Demolition of existing concrete ductbank encasement near Headworks (CR 233) PR 20214 (1599)	B	\$4,596.34						0				
	71.5 Installation of 4-inch gate valve and associated repairs near FPS-2 Due to Failure of Existing 4-inch Reclaimed Water Loop (CR 234) PR 30214 (20214)	A	\$1,626.47						0				
72	Approved by Acting Exec. Director of Engineering & Construction Approved on June 28, 2012			\$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
	72.1 Irrigation Line Road Crossings Additions (CR-186) PR 20214 (1599), 30214 (7106)	C	\$14,596.59						0				
	72.2 Transformer 12, 13 conduit relocation (CR 239) PR 20214 (1599), 30214 (7106)	B	\$865.37						0				
	72.3 Biosolids conduit realignment near SWP Station (CR 245) PR 20847 (1617)	B	\$3,605.70						0				
	72.4 Repair of unknown 2" and 4" RW pipe during excavation of biosolids piping (CR 260) PR 20847 (1617)	B	\$3,980.11						0				
73	Approved by Acting Exec. Director of Engineering & Construction Approved on July 3, 2012			\$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
	73.1 MBR Roof and Bridge Crane Modifications (CR-264) PR 20214 (1599)	C	\$16,525.80						0				
74	Approved by E&O Committee Approved on July 24, 2012			\$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
	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						0				
75	Approved by Board of Directors Approved on August 13, 2012			\$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
	75.1 MPS-1 Building Demolition and Electrical Relocation (CR-209) PR 20214 (1599) and 30214 (1706)	A	\$473,570.14						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
76	Approved by General Manager Approved on July 30, 2012			\$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
76.1	MPS-2 Pump Pad Modifications (CR-232) PR 30214 (1706)	A	\$29,412.41					0					
77	Approved by Board of Directors Approved on August 27, 2012			\$151,336.95	\$3,281,852.36	\$3,433,189.31	3.9%	\$90,912,639.31	0	167	167	1,261	1/15/2013
77.1	Chlorine Contact Tank Repairs (CR-152) PR 30214 (1706)	B	\$151,336.95					0					
78	Approved by Exec. Dir. Of Engineering and Planning Approved on August 15, 2012			\$24,341.31	\$3,433,189.31	\$3,457,530.62	4.0%	\$90,936,980.62	0	167	167	1,261	1/15/2013
78.1	Unforeseen Conditions Associated with 36-inch HDPE Biosolids Storm Drain Installation PR 20847 (1617)	B	\$11,473.24					0					
78.2	Remove and Replace Two 8-Inch Reclaimed Water Gate Valves on South Side of Chlorine Contact Tanks (CR-257) PR 30214	A	\$1,832.69					0					
78.3	Removal of Unknown Concrete at Existing Structure northwest of PEPS to install 54" PE line PR 20124 (1599)	B	\$6,833.18					0					
78.4	Headworks Scum Piping Modifications (CR-269) PR 20124 (1599)	B	\$4,202.20					0					
79	Pending Approval from General Manager Sent for Approval on September 20, 2012			\$49,030.10	\$3,457,530.62	\$3,506,560.72	4.0%	\$90,986,010.72	0	167	167	1,261	1/15/2013
79.1	Chlorine Contact Tank Repairs (CR-152) PR 30214 (1706)	A	\$49,030.10					0					
80	Approved by Exe. Director of Engineering and Planning Approved on September 24, 2012			\$24,593.00	\$3,506,560.72	\$3,531,153.72	4.0%	\$91,010,603.72	0	167	167	1,261	1/15/2013
80.1	Arc Flash/Coordination Study (CR-252) PR 20214 (1599)	A	\$24,593.00					0					
81	Pending Approval from E&O Committee Scheduled for approval on November 16, 2012			\$66,811.32	\$3,531,153.72	\$3,597,965.04	4.1%	\$91,077,415.04	0	167	167	1,261	1/15/2013
81.1	Storage Building (CR-295) PR 20847 (1617)	D	\$66,811.32					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				\$/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
82	Approved by Exe. Director of Engineering and Planning Approved on October 31, 2012			\$24,888.24	\$3,597,965.04	\$3,622,853.28	4.1%	\$91,102,303.28	0	167	167	1,261	1/15/2013
82.1	SCADA Programming Modifications at UV Disinfection Facility (CR-235) PR 30214 (1706)	A	\$2,598.23										
82.2	Re-Fabricate Cofferdam Due to Existing Conditions at Primary Effluent Channel (CR-259) PR 20124 (1599)	B	\$3,904.14										
82.3	Repair of Existing 6" Waste Activated Sludge (WAS) Pipeline south of Existing Rectangular Secondary Clarifiers (CR-268) PR 20214 (1599)	B	\$2,979.43										
82.4	Membrane Bioreactor Low Pressure Air Flange Modifications (CR-271) PR 20214 (1599)	B	\$1,394.68										
82.5	Cut and Plug Abandoned 6-inch sewer line north of existing Headworks (CR-272) PR 20214 (1599)	B	\$429.63										
82.6	Electrical Manhole No. MHG6C Sump Pump Work (CR-277) PR 20124 (1599)	C	\$2,104.38										
82.7	Crack Repair of Existing Primary Sedimentation Tank Influent Channel (CR-292) PR 20214 (1599)	B	\$3,476.68										
82.8	Modifications to Ledger Angle, Grating, and FRP launder troughs in Primary Sedimentation Tank splitter box (CR-293) PR 20214 (1599)	B	\$2,767.83										
82.9	Pressure Regulators at Headworks (CR-294) PR 20214 (1599)	B	\$5,233.24						0				
83	Pending Approval from Board of Directors Submitted for approval on November 20, 2012			-\$228,007.95	\$3,622,853.28	\$3,394,845.33	3.9%	\$90,874,295.33	0	167	167	1,261	1/15/2013
83.1	Final quantity adjustments for Bid Item No. A.07 - Predrilled Precast Pre-stressed Concrete Drive Piles - Influent Sewer	B	-\$210,094.00						0				
83.2	Final quantity adjustments for Bid Item No. B.01 - Precast Pre-stressed Concrete Driven Pile	B	\$89,362.00						0				
83.3	Final quantity adjustments for Bid Item No. B.02 - Predrilled Precast Pre-stressed Concrete Driven Piles.	B	-\$107,275.95						0				

Category	Total Amount	% of Original Contract
A - District Convenience/Initiation - Project Related	\$ 908,016.32	1.0%
B - Differing Site Conditions	\$ (261,071.30)	-0.3%
C - Design Oversight	\$ 322,265.92	0.4%
D - District Convenience/Initiation - Non-Project Related	\$ 2,425,634.39	2.8%
TOTAL (A+B+C+D)	\$ 3,394,845.33	3.9%
TOTAL (A+B+C - (CCO No. 8 - SCADA))	\$ 2,105,031.69	2.4%

EXHIBIT "D"

IRVINE RANCH WATER DISTRICT PROFESSIONAL SERVICES VARIANCE

Project Title: IRWD-Michelson Water Reclamation Plant _____ File No.: _____
 Phase 2 Control System Integration _____ Date: _____
 Project No.: 20214 _____ Variance No.: 2 _____
 Purchase Order No.: 0012347200 _____ Project No. 30214 _____

Originator: IRWD ENGINEER/CONSULTANT Other (Explain) _____

Description of Variance (*attach any back-up material*):
 Cost incurred due to schedule and project completion delays out of Delta Systems Engineering control. Additional QA/QC Work identified for HMI conversion subtask.

Engineering & Management Cost Impact:

Classification	Manhours	Billing Rate	Labor \$	Direct Costs	Subcon. \$	Total \$
Department Manager 5	294	170	50,000			50,000
Integrator Rate 9	125	125	20,000			20,000
Total \$ =						70,000

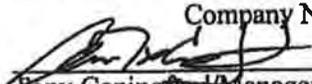
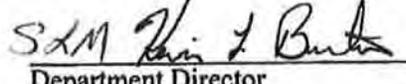
Schedule Impact:

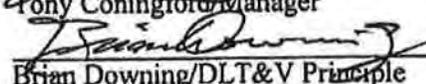
Task No.	Task Description	Original Schedule	Schedule Variance	New Schedule
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A

Required Approval Determination:

Total Original Contract	\$1,131,041.13	<input type="checkbox"/> General Manager: Single Variance less than or equal to \$30,000.
Previous Variances \$98,389		
This Variance \$70,000		<input type="checkbox"/> Committee: Single Variance greater than \$30,000, and less than or equal to \$60,000.
Total Sum of Variances	\$168,389	<input checked="" type="checkbox"/> Board: Single Variance greater than \$60,000.
New Contract Amount	\$1,299,430.13	
Percentage of Total Variances to Original Contract	14.8 %	<input type="checkbox"/> Board: Cumulative total of Variances greater than \$60,000, or 30% of the original contract, whichever is higher.

ENGINEER/CONSULTANT: Delta Systems Engineering IRVINE RANCH WATER DISTRICT
 Company Name

 _____ Date: 11/02/12
  _____ Date: 11/7/12
 Tony Coningford/Manager Department Director

 _____ Date: 11/05/12
 _____ Date: _____
 Brian Downing/DLT&V Principle General Manager/Comm./Board

CHANGE ORDER Variance Request 2

SCOPE OF WORK

Task S1 – Project Coordination Efforts – Contract Extension

Due to delays in project completion outside of DELTSE control, DeltaSE has requested additional funding to cover the 13 months it's estimated to complete the project. The service provided will be continued project coordination with IRWD, Filanc, and third party vendors. Coordination efforts of internal scheduled work and resources to be completed and implemented in the field. QA/QC efforts and coordination for implementation of code and controls in the field

Task S2 QA/QC of New Objects and Screens against legacy PLCs

HMI Conversion of Old InTouch Screens to Archestra Screens with IRWD current objects creation standards. This variance is requested to cover the additional costs of QA/QC HMI screens and objects to IRWD current standards testing against PLC's that DeltaSE didn't design or code. A list of the third party PLC's are as follows.

- NTS_EM_PLC
- MSLS_PLC
- PLCGW137, PLCGW138, PLCGW139,
- LCP1, LCP2, LCP3, LCP4
- PLC_53
- HATS_PLC
- G1, G2
- PLC 6
- PLC_6A
- PLC10
- PLC19
- PLC5
- SW_Gear
- LS5_DivStruct
- MCP
- PLC4
- PLC40
- PLC3
- MW RP FPS2 P2
- Wetlands
- PLC4
- SD_CREEK
- PLC 9_DDE

Task S3 – PLC 700 Control Changes – Most Open Valve Strategy

PLC 700 control strategic changes to reflect Most Open Valve Strategy. Delta acquired additional information from GE in order to get an initial control strategy to implement the changes.

November 26, 2012

Prepared by: K. Welch

Submitted by: P. Weghorst/G. Heiertz

Approved by: Paul Cook

CONSENT CALENDAR

STRAND RANCH RECOVERY FACILITIES PROJECT REDUCTION OF RETENTION

SUMMARY:

In September 2011, W. M. Lyles Company (W.M. Lyles) was awarded a construction contract for \$3,281,860 to construct pipeline facilities, Cross Valley Canal (CVC) turn-ins and well heads associated with the Strand Ranch Groundwater Recovery Project. Work is 99 percent complete and the contractor's remaining work is dependent upon tasks being performed under separate contract with Bakersfield Well and Pump (BW&P). All work is expected to be finished by the end of January. The contractor has requested that the retention be reduced from 10 percent to 5 percent. Staff recommends that the Board authorize the reduction in W.M. Lyles' retention for this project.

BACKGROUND:

Construction of pipeline facilities, CVC turn-in facilities and well heads for the Strand Ranch Groundwater Recovery Project was awarded to W.M. Lyles in September 2011 in the amount of \$3,281,860. This project will provide infrastructure to allow the recovery of previously banked groundwater and discharges into the CVC for eventual delivery to IRWD and its water banking partners.

Work related to a final change order is in progress and involves the removal and re-installation of the pump and motor at one of the project wells to allow BW&P under separate contract to correct problems with sand production. Both BW&P and W.M. Lyles are expected to complete all work by the end of January.

W.M. Lyles has completed 99 percent the project work according to contract requirements and has requested that the retention be reduced from 10% to 5%. Board approval is required to reduce retention. The General Provisions state:

"At any time after 50% of the work has been satisfactorily completed and if the District determines that aggressive progress will continue to a timely completion of the contract, the District may pay any of the remaining progress payments in full for actual work completed."

Staff has reviewed W.M. Lyles' request and verified that it is currently working at a pace to complete the remaining contract work prior to the contract completion date. W.M. Lyles has consistently maintained good construction progress throughout the project duration.

FISCAL IMPACTS:

No adjustments are required to the FY 2012-13 Capital Budget and Expenditure Authorization for the Strand Ranch Facilities, Project 11289 (2812). Total change orders to date are equal to 7.3 percent of the original contract amount. The total revised contract amount is \$3,522,765.26.

ENVIRONMENTAL COMPLIANCE:

A Final Environmental Impact Report for Strand Ranch has been prepared and certified, and the project has been approved in compliance with the California Environmental Quality Act (CEQA) of 1970 (as amended), codified at California Public Resources Code Sections 21000 et seq., and the State CEQA Guidelines in the Code of Regulations, Title 14, Division 6, Chapter 2.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD FIND THAT SATISFACTORY PROGRESS IS BEING MADE ON THE DISTRICT'S CONSTRUCTION CONTRACT WITH W. M. LYLES COMPANY; AUTHORIZE THE REDUCTION OF RETENTION FROM 10% TO 5% OF THE CONTRACT AMOUNT; AND RELEASE OF FUNDS TO W.M. LYLES COMPANY IN EXCESS OF 5% OF THE CONTRACT AMOUNT FROM RETENTION CURRENTLY HELD FOR THE STRAND RANCH GROUNDWATER RECOVERY FACILITIES, PROJECT 11289 (2812).

LIST OF EXHIBITS:

None.

November 26, 2012

Prepared by: J. Dayer

Submitted by: D. Pedersen

Approved by: Paul Cook

Handwritten initials "D.P." and a signature "K.C." in a circle.

CONSENT CALENDAR

PROPOSAL TO PROVIDE FLEET MAINTENANCE SERVICES TO THE ORANGE COUNTY CEMETERY DISTRICT

SUMMARY:

The Orange County Cemetery District (OCCD) is planning to outsource the maintenance of its heavy equipment at the El Toro Memorial Park and requested that Irvine Ranch Water District (IRWD) submit a proposal to perform this work. Staff recommends that the Board approve the draft terms and conditions to provide maintenance and repair of the OCCD's small fleet equipment for a two-year period, and authorize the General Manager to execute a Municipal Services Agreement with the Cemetery District subject to non-substantive changes.

BACKGROUND:

In December 2010, the Orange County Local Agency Formation Commission (LAFCO) surveyed local agencies to evaluate interest in pooling resources and sharing services to reduce agency costs. The survey revealed that the most commonly sought "shared service" consisted of vehicle/equipment service and repair. In response to this finding, LAFCO formed a Fleet Maintenance Working Group comprised of representatives from 18 local agencies including IRWD. This group was tasked with facilitating collaborative efforts between agencies to identify opportunities for providing more efficient services, and to also achieve cost savings.

In the course of these meetings, IRWD learned that the OCCD was planning to outsource the maintenance and repair of a small fleet of equipment housed and operated at the El Toro Memorial Park in Lake Forest due to difficulties in retaining reliable service and repair while minimizing equipment down-time and controlling costs. Further discussions revealed that IRWD may be able to cost effectively provide these services. As the El Toro Memorial Park is located within two miles from the Los Alisos Water Recycling Plant where staff currently provides similar services, the OCCD therefore requested that IRWD submit a proposal to perform this work.

Draft Proposal to Provide Fleet Maintenance Services to the OCCD:

IRWD proposes to provide fleet maintenance services in accordance with the terms and conditions described in Exhibit "A". The startup services include reviewing the equipment service records, preparing an appropriate maintenance schedule for the equipment that is acceptable to both parties, and uploading equipment data into IRWD's existing fleet maintenance system. The initial term for the proposal would be for a two-year period. Labor for the proposed services would be billed at \$78 per hour, which is sufficient to offset IRWD's labor cost plus applicable benefits and overhead. IRWD's parts and materials used for the OCCD's equipment would be billed at cost plus a 10% mark-up for handling. Billable work orders, including detailed labor hours and parts consumption, would be generated by IRWD's fleet management system and billed upon completion of each service.

FISCAL IMPACTS:

This activity will provide IRWD with revenues totaling approximately \$6,000 per year; \$5,400 of which will be offset by the direct and indirect costs of the program. Sufficient funds to provide the first year of these services are available in the approved Fiscal Year 2012-13 Operating Budget.

ENVIRONMENTAL COMPLIANCE:

This activity does not constitute a project as defined by the California Environmental Quality Act pursuant to Section 15378 of the California Code of Regulations, Title 14, Division 6, Chapter 3.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on November 14, 2012.

RECOMMENDATION:

THAT THE BOARD APPROVE THE DRAFT TERMS AND CONDITIONS FOR IRWD TO PROVIDE MAINTENANCE AND REPAIR OF ORANGE COUNTY CEMETERY DISTRICT'S SMALL FLEET EQUIPMENT FOR A TWO-YEAR PERIOD AND TO AUTHORIZE THE GENERAL MANAGER TO EXECUTE A MUNICIPAL SERVICES AGREEMENT WITH THE ORANGE COUNTY CEMETERY DISTRICT SUBJECT TO NON-SUBSTANTIVE CHANGES.

LIST OF EXHIBITS:

Exhibit "A" – Proposal to Provide Fleet Maintenance Services to the Orange County Cemetery District – Draft Terms and Conditions

EXHIBIT "A"

PROPOSAL TO PROVIDE FLEET MAINTENANCE SERVICES TO THE ORANGE COUNTY CEMETERY DISTRICT

DRAFT TERMS AND CONDITIONS

October 30, 2012

The Irvine Ranch Water District proposes to provide fleet maintenance services to the Orange County Cemetery District (ORCCD) in accordance with the following terms and conditions.

I. General

- These services are offered to support the two ORCCD-owned backhoe-loaders domiciled and operated at the El Toro Memorial Park.
- IRWD will provide service and maintenance at the request of ORCCD staff.
- IRWD employees will perform all service and maintenance.
- IRWD's relationship to ORCCD in the provision of these services will be that of an independent contractor.

II. Startup Services

- IRWD staff will review existing service records for the equipment to establish an appropriate maintenance schedule agreeable to both parties.
- IRWD will upload ORCCD equipment information into IRWD's fleet maintenance software.

III. Ongoing Administration

- IRWD will maintain service records for the equipment including meter readings, labor hours, and parts consumed.
- For any service or repair, IRWD will generate a work order. A copy of the completed work order with parts and labor detail will be forwarded to ORCCD immediately following each service action.
- Preventative maintenance services will be performed at ORCCD's equipment yard at the El Toro Memorial Park. All trash, materials and waste oil will be removed from the site by IRWD staff.

IV. Costs and Billing

- The labor rate for all scheduled and unscheduled maintenance shall be \$78.00 per man-hour inclusive of all benefits and overhead.
- Scheduled maintenance services will be billed for man-hours as indicated in Section V, "Scheduled Maintenance Menu", plus parts or other materials as provided herein.
- Unscheduled repairs will be billed at the \$78.00/hr rate portal-to-portal.

- The portal-to-portal rate will include transport of equipment to/from IRWD or outside contractor’s facility, when necessary.
- Parts and other materials will be posted to work orders at cost plus 10%.

V. Scheduled Maintenance Menu

- “A” Service - 200 Hour Interval (2.5 man-hours): Engine oil and filter change, change air filter, change fuel filter, inspection of all lights and warning indicators, lubrication, set tire inflation pressures, top off all fluids, and multi point inspection. Includes drive time.
- “B” Service – 400 hour interval (3.5 man-hours): Same as “A” plus replace hydraulic filters. Includes drive time.
- “C” Service – 800 hour interval (4.0 man-hours): Same as “A” and “B” plus drain and refill transmission fluid. Includes drive time.

Equipment Hours	200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
Service	A	B	A	C	A	B	A	C	A	B	A	C	A	B	A

VI. Term

- The initial term for services shall be a period of two years.
- The parties may mutually agree to extend the services beyond the initial two-year term at which time billing rates may be adjusted by agreement of the parties.

VII. Insurance

- IRWD will provide and maintain comprehensive general liability, personal injury, and automobile liability insurance with limits of at least \$1,000,000 combined single limit per occurrence.
- IRWD will carry and pay for compensation insurance as necessary for IRWD employees under California Worker’s Compensation Insurance and Safety Laws and relieve ORCCD from all responsibility under said laws in connection with the performance of proposed work.

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November 26, 2012

Prepared by: Christopher Smithson 

Submitted by: Rob Jacobson 

Approved by: Paul Cook 

CONSENT CALENDAR

COUNTY REQUEST FOR UPDATED TAX RESOLUTION

SUMMARY:

The District submitted the Ad Valorem Tax Resolution for FY 2012-13 to the County of Orange (County) in June of 2012. Sections were eliminated that identified certain improvement districts (IDs) that no longer have outstanding debt. Because these ID numbers were not eliminated from the first paragraph of the resolution; for consistency the County has requested that the District provide a revised resolution reflecting this change.

BACKGROUND:

The District submitted the Ad Valorem Tax Resolution for FY 2012-13 to the County for FY 2012-13 in June 2012. At that time, sections associated with IDs that no longer set a tax rate were removed. The first paragraph of the document identifies all IDs with tax rates. The body of the document addresses the tax rate in each ID as a separate section and identifies the proposed tax rate for each. The five sections that were eliminated included IDs 1, 2, 102, 106 and 206, but these ID numbers inadvertently remained in the first paragraph of the resolution. The County has requested a new Board approved resolution with IDs 1, 2, 102, 106 and 206 removed from the first paragraph. The new resolution, prepared by staff and IRWD legal counsel, is attached as Exhibit "A".

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Finance and Personnel Committee on November 6, 2012.

RECOMMENDATION:

THAT THE BOARD APPROVE THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2012-

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT, ORANGE COUNTY, CALIFORNIA
ESTABLISHING AD VALOREM TAX REVENUES FOR
FISCAL YEAR 2012/13

LIST OF EXHIBITS:

Exhibit "A" - Resolution Adopting Ad Valorem Property Tax Rates

RESOLUTION NO. 2012-

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT, ORANGE COUNTY, CALIFORNIA
ESTABLISHING AD VALOREM TAX REVENUES FOR
FISCAL YEAR 2012/13

WHEREAS, the Board of Directors of the Irvine Ranch Water District (IRWD) has duly considered the financial needs of the IRWD and its Improvement District Nos. 105, 112, 113, 121, 130, 140, 161, 182, 184, 186, 188, 135, 212, 213, 221, 230, 235, 240, 250, 252, 261, 282, 284, 286, and 288, for the fiscal year 2012-13 and the funds available and established to become available for meeting said financial needs; and

WHEREAS, pursuant to Section 37206 of the Water Code of the State of California, the Board of Directors annually shall furnish to the Board of Supervisors of Orange County and to the County Auditor, an estimate in writing of the amount of money needed to be raised by the District during the fiscal year for the payment of its proportion of the amount required for the purposes of the District; and

WHEREAS, Article XIII B of the Constitution of the State of California provides that the appropriations of local agencies will be limited each year to those of the previous year with specified adjustments permitted; and

WHEREAS, Section 9(a) of Article XIII B specifically excludes appropriations required to pay the cost of interest and redemption charges, including the funding of any reserve or sinking fund required in connection therewith, on indebtedness existing or legally authorized as of January 1, 1979, or on bonded indebtedness thereafter approved according to law by a vote of electors; and

WHEREAS, the ad valorem tax revenues established by IRWD are used entirely for debt service and are therefore exempt from the appropriations formula established by Article XIII B.

WHEREAS, the ad valorem tax revenues received by IRWD pursuant to this Resolution will provide a portion of the funds needed to pay principal and interest with respect to the General Obligation Bonds referenced below, and this Board wishes to specify the sources of the remainder of the amounts needed therefor in the current year.

NOW, THEREFORE, the Board of Directors of IRWD does hereby RESOLVE, DETERMINE, AND ORDER as follows:

Section 1. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 130 of IRWD for fiscal year 2012-13 is .00680 percent (.0000680) of full value.

Section 2. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 105 of IRWD for fiscal year 2012-13 is .01980 percent (.0001980) of full value.

Section 3. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 121 of IRWD for fiscal year 2012-13 is .01311 percent (.0001311) of full value.

Section 4. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 140 of IRWD for fiscal year 2012-13 is .01000 percent (.0001000) of full value.

Section 5. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 161 of IRWD for fiscal year 2012-13 is .01758 percent (.0001758) of full value.

Section 6. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 182 of IRWD for fiscal year 2012-13 is .02700 percent (.0002700) of full value.

Section 7. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 184 of IRWD for fiscal year 2012-13 is .01350 percent (.0001350) of full value.

Section 8. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 230 of IRWD for fiscal year 2012-13 is .02200 percent (.0002200) of full value.

Section 9. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 221 of IRWD for fiscal year 2012-13 is .01700 percent (.0001700) of full value.

Section 10. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 240 of IRWD for fiscal year 2012-13 is .02140 percent (.0002140) of full value.

Section 11. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 250 of IRWD for fiscal year 2012-13 is .03600 percent (.0003600) of full value.

Section 12. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 261 of IRWD for fiscal year 2012-13 is .02830 percent (.0002830) of full value.

Section 13. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 282 of IRWD for fiscal year 2012-13 is .01890 percent (.0001890) of full value.

Section 14. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 284 of IRWD for fiscal year 2012-13 is .03239 percent (.0003239) of full value.

Section 15: That the tax be levied for servicing the General Obligation Bonds of Improvement District No. 135 of IRWD for fiscal year 2012-13 is .00421 percent (.0000421) of full value.

Section 16. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 235 of IRWD for fiscal year 2012-13 is .00266 percent (.0000266) of full value.

Section 17. That the tax to be levied for servicing Improvement District No. 252's just proportion of liability determined pursuant to Resolution No. 2005-41, for the General Obligation Bonds of Improvement District No. 250 of IRWD for fiscal year 2012-13 is .00001 percent (.0000001) of full value.

Section 18. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 186 of IRWD for fiscal year 2012-13 is .04787 percent (.0004787) of full value.

Section 19. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 188 of IRWD for fiscal year 2012-13 is .21540 percent (.0021540) of full value.

Section 20. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 286 of IRWD for fiscal year 2012-13 is .00201 percent (.0000201) of full value.

Section 21. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 288 of IRWD for fiscal year 2012-13 is .01000 percent (.0001000) of full value.

Section 22. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 113 of IRWD for fiscal year 2012-13 is .05940 percent (.0005940) of full value.

Section 23. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 213 of IRWD for fiscal year 2012-13 is .08720 percent (.0008720) of full value.

Section 24. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 112 of IRWD for fiscal year 2012-13 is .03168 percent (.00031680) of full value.

Section 25. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 212 of IRWD for fiscal year 2012-13 is .07452 percent (.0007452) of full value.

Section 26. The taxes levied by Section 1 through 17 of this Resolution are for bonds approved before January 1, 1989. The taxes levied by Section 18 through 25 are for bonds approved after January 1, 1989.

Section 27. That the Secretary and Treasurer of the District are hereby directed to furnish a certified copy of this resolution to the Auditor of the County of Orange.

Section 28. That the ad valorem tax revenues established by IRWD hereby for the fiscal year 2012-13 are in compliance with the provisions of Article XIII B of the constitution of the State of California.

Section 29. That principal and interest with respect to the General Obligation Bonds of IRWD shall be paid from (1) the ad valorem assessments received by IRWD pursuant to this Resolution; (2) any amounts held in bona fide debt service funds; (3) other monies, if any, required to be applied to the payment of debt service by the applicable indenture or resolution of issuance; (4) tax revenues applied pursuant to Resolution Nos. 1992-48 and 2002-10 (pledge of the 1% levy), as such application may be modified by resolution amending the allocation of tax revenues; and (5) to the extent additional amounts are necessary for such purpose, revenues which are received by IRWD within twelve months of being applied to the payment of debt service and which are legally available therefor, including income from the investment of such revenues where both the investment income and the revenues on which it is earned are received by IRWD within twelve months of being applied to the payment of debt service.

ADOPTED, SIGNED and APPROVED this 26th day of November, 2012.

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

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

APPROVED AS TO FORM:
BOWIE, ARNESON, WILES AND GIANNONE

Legal Counsel

November 26, 2012

Prepared by: J. Dayer

Submitted by: D. Pedersen

Approved by: Paul Cook



ACTION CALENDAR

INTERIOR/EXTERIOR RECOATING OF LAKE FOREST ZONE A RESERVOIR NO. 2 EXPENDITURE AUTHORIZATION AND CONSTRUCTION AWARD

SUMMARY:

The purpose of this project is to recoat the interior and exterior surfaces of the Lake Forest Zone A Reservoir No. 2 due to coating failures and corrosion. Staff recommends that the Board:

- Approve an Expenditure Authorization in the amount of \$386,100 for Project 30324 (1817); and
- Authorize the General Manager to execute a construction contract with J. Colon Coatings, Inc. in the amount of \$385,580.

BACKGROUND:

During the annual inspection of the Lake Forest Zone A Reservoir No. 2 in April 2010, staff recognized paint coating failures on the exterior surfaces of the roof plates and shell of the reservoir as well as similar coating failures on the interior surfaces including corrosion of the lateral bracing at rafter mid-spans and interior ladder.

Harper & Associates Engineering also performed interior and exterior inspections and concurred with staff's finding that the reservoir required recoating, and developed a scope of work consisting of repairing all defects noted during the annual and subsequent inspections, including the replacement of the interior ladder with a fiberglass model and the addition of hand railing around the roof hatch area.

The project was advertised to the five contractors with suitable painting experience including Advanced Industrial Services, Inc., Blastco, Inc., J. Colon Coatings, Inc., Pacific Titan, Inc. and State Painting Company, Inc. Bids ranges from \$385,580 to \$503,300 with the apparent low bid from J. Colon Coatings, Inc. of \$385,580. J. Colon Coatings is well qualified to perform the work based upon past experiences performing similar projects. The bid summary is included as Exhibit "A".

FISCAL IMPACTS:

Project 30324 (1817) is included in the approved Fiscal Year 2012-13 Capital Budget. An Expenditure Authorization as summarized in the table below is attached as Exhibit "B". The project will be funded from Replacement Funds.

ACTION CALENDAR: Interior/Exterior Recoating of Lake Forest Zone A Reservoir No. 2 –
Expenditure Authorization and Construction Award
November 26, 2012
Page 2

Project No.	Current Budget	Addition <Reduction>	Total Budget	Exist EA	This EA Request	Total EA Request
30324 (1817)	\$513,700	\$0	\$513,700	\$59,400	\$386,100	\$445,500

ENVIRONMENTAL COMPLIANCE:

This activity is categorically exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Sections 15301 and 15302, replacement or reconstruction of existing structures.

COMMITTEE STATUS:

Construction awards and the associated expenditure authorizations are not routinely taken to Committee prior to submittal to the Board.

RECOMMENDATION:

THAT THE BOARD APPROVE AN EXPENDITURE AUTHORIZATION IN THE AMOUNT OF \$386,100 FOR PROJECT 30324 (1817) AND AUTHORIZE THE GENERAL MANAGER TO EXECUTE A CONSTRUCTION CONTRACT WITH J. COLON COATINGS INC., IN THE AMOUNT OF \$385,580 FOR THE INTERIOR/EXTERIOR RECOATING OF THE LAKE FOREST ZONE A RESERVOIR NO. 2.

LIST OF EXHIBITS:

Exhibit "A" - Bid Summary
Exhibit "B" – Expenditure Authorization

Exhibit "A"

Rehabilitation of Zone A Reservoir #2 - Bid Summary

Bidder	Bid
Advanced Industrial Services, Inc.	\$503,300
Blastco, Inc.	\$536,413
J. Colon Coatings, Inc.	\$385,580
Pacific Titan, Inc.	\$551,423
State Painting Company, Inc.	\$415,683

EXHIBIT "B"

IRVINE RANCH WATER DISTRICT
Expenditure Authorization

Project Name: RECOAT ZONE A STEEL RESERVOIRS
 EPMS Project No: 30324 EA No: 2
 Oracle Project No: 1817
 Project Manager: PEDERSEN, DAVID
 Project Engineer: DAYER, JOHN
 Request Date: November 15, 2012

ID Split: Miscellaneous

Improvement District (ID) Allocations

ID No.	Allocation %	Source of Funds
210	100.0	REPLACEMENT FUND**
Total	100.0%	

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$59,400
This Request:	\$386,100
Total EA Requests:	\$445,500
Previously Approved Budget:	\$513,700
Budget Adjustment Requested this EA:	\$0
Updated Budget:	\$513,700
Budget Remaining After This EA	\$68,200

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	0	4,000	4,000	0	4,000	4,000	7/11	6/12
ENGINEERING DESIGN - OUTSIDE	0	5,000	5,000	0	5,000	5,000	7/11	6/13
DESIGN STAFF FIELD SUPPORT	0	2,000	2,000	0	2,000	2,000	7/11	6/13
ENGINEERING - CA&I IRWD	0	5,000	5,000	0	5,000	5,000	7/11	6/12
ENGINEERING - CA&I OUTSIDE	0	20,000	20,000	0	20,000	20,000	7/11	6/13
CONSTRUCTION FIELD SUPPORT	0	0	0	0	6,000	6,000	7/11	6/13
CONSTRUCTION	351,000	13,000	364,000	0	420,000	420,000	7/11	6/13
LEGAL	0	5,000	5,000	0	5,000	5,000	7/11	6/13
Contingency - 10.00% Subtotal	\$35,100	\$5,400	\$40,500	\$0	\$46,700	\$46,700		
Subtotal (Direct Costs)	\$386,100	\$59,400	\$445,500	\$0	\$513,700	\$513,700		
Estimated G/A - 180.00% of direct labor*	\$0	\$19,800	\$19,800	\$0	\$30,600	\$30,600		
Total	\$386,100	\$79,200	\$465,300	\$0	\$544,300	\$544,300		
Direct Labor	\$0	\$11,000	\$11,000	\$0	\$17,000	\$17,000		

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

EA Originator:



11/19/12

Department Director:



11/20/12

Finance:

Board/General Manager:

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$556,000. The above-captioned project is further described in the attached staff report and additional documents, if any, which are hereby incorporated by reference. This declaration of official intent to reimburse costs of the above-captioned project is made under Treasury Regulation Section 1.150-2.

08
November 28, 2012

Prepared by: M. Cortez

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

Approved by: Paul Cook *P. Cook*

ACTION CALENDAR

SAN JOAQUIN MARSH CAMPUS MOLD REMEDIATION AT FIVE BUILDINGS BUDGET ADDITION AND EXPENDITURE AUTHORIZATION

SUMMARY:

This project addresses the mold remediation at the San Joaquin Marsh Campus; the initial remediation work will be performed on the Caretaker's Residence (the green house). Staff recommends that the Board:

- Authorize the addition of Project 11665 in the amount of \$369,600 to the FY 2012-13 Capital Budget; and
- Approve an Expenditure Authorization in the amount of \$369,600 for the San Joaquin Marsh Building Campus Mold Remediation Project.

BACKGROUND:

Last summer a portion of the sub-flooring structural members and floor near the back door of the Irvine Ranch Marsh House (pink house) of the San Joaquin Marsh Building Campus was discovered to be failing. Staff removed an area of the flooring and discovered "spongy" subfloor timber members that appeared to be covered with black mold. In July 2012 staff retained a home inspection consultant specializing in mold evaluations to verify the extent of the damage. The scope of work included inspection of all five buildings at the Campus with raised foundations; the Learning Center is a slab-on-grade structure and was not inspected.

In September the District's consultant, Guaranteed Property Inspection, completed the building inspections and discussed their findings with staff. All five buildings' subfloor structural members have varying degrees of mold which need replacement and/or remediation using an abrasive process. Guaranteed's generalized recommendations included: installing full roof gutters and downspouts with splash blocks, removing spray irrigation adjacent to the buildings, converting the crawl spaces to a conditioned space to eliminate moisture, and sealing the subfloor members from beneath with a urethane coating. A site map of the Campus is attached as Exhibit "A"; Guaranteed's report is attached as Exhibit "B".

Since the Caretaker's Residence (green building) houses an IRWD employee, the remediation work is scheduled to start on the Caretaker's Residence. (The employee and his family are already moved out of this house.) By remediating one house first, staff will then be able to evaluate the effectiveness of the remediation work prior to progressing with the other buildings and incorporating any lessons learned.

Construction Award:

Staff prepared a scope of work based on Guaranteed's recommendations and invited four building/mold remediation contractors to provide a cost proposal to remediate the Caretaker's

Residence. Only two contractors, Certified Bio Services (Certified) and Shur Dry, Inc. (Shur Dry) attended the pre-bid conference on October 23, 2012 and ultimately submitted bids on November 2. The low bid in the amount of \$35,974.63 was submitted by Shur Dry; however, Shur Dry did not use the project's bid form, and stated that their bid was a preliminary estimate. Shur Dry was unresponsive to staff's subsequent e-mail and telephone messages requesting they re-submit their final bid, as well as to confirm that their subcontractor was a certified installer of the crawl space improvement system. Due to the above reasons, Shur Dry's bid was determined to be unresponsive. Certified submitted a bid of \$55,900, and is attached as Exhibit "C". The contract with Certified is within the approval limits of the General Manager.

FISCAL IMPACTS:

Using Certified's bid as a baseline remediation cost for one building, staff estimates an aggregate remediation cost of \$300,000 for the Campus. Project 11665 (4130) is not currently included in the FY 2012-13 Capital Budget. Staff requests the addition of Project 11665 (4130) to the FY 2012-13 Capital Budget and approval of an Expenditure Authorization as shown in the table below and in Exhibit "D".

Project No.	Current Budget	Addition <Reduction>	Total Budget	Existing EA	This EA Request	Total EA Request
11665 (4130)	\$-0-	\$369,600	\$369,600	\$-0-	\$369,600	\$369,600

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.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on November 14, 2012.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE ADDITION OF PROJECT 11665 (4130) IN THE AMOUNT OF \$369,600 TO THE FY 2012-13 CAPITAL BUDGET, AND APPROVE AN EXPENDITURE AUTHORIZATION IN THE AMOUNT OF \$369,600 FOR THE SAN JOAQUIN MARSH CAMPUS MOLD REMEDIATION, PROJECT 11665 (4130).

LIST OF EXHIBITS:

- Exhibit "A" – San Joaquin Marsh Building Campus Site Map
- Exhibit "B" – Building Report, Guaranteed Property Inspection
- Exhibit "C" – Certified Bio Services Bid
- Exhibit "D" – Expenditure Authorization



**45 RIPARIAN VIEW
IRWD CARETAKER RESIDENCE**

EXHIBIT "A"

EXHIBIT "B"



**Guaranteed
Property
Inspections**
INCORPORATED
The "Mold Detective"



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Indoor Moisture, Microbial and Air Quality Analysis Report

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Report Date: August 20, 2012
Inspection Address: #45, Green Building, IRWD
Inspection Date(s): August 7, 2012

Prepared for: IRWD

This report and investigation was conducted by: Steve Zivolich, MA, CMC, CCI, ACI



Council-Certified Microbial Consultant, CMC, *American Council for Accredited Certification*
Associate Member, American Industrial Hygiene Association #163536
Radon Measurement Provider, *National Radon Proficiency Program, CA Dept. of Public Health*
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I. Findings and Recommendations

Introduction:

Per the client request, an indoor air quality inspection was conducted for the converted historical green home #45, that had been relocated to the IRWD Michelson site. Previous historical moisture intrusion was reported for the kitchen and dining room windows. These area were reported as repaired. The occupant complained of mold malodors in the kitchen, and drawer wall cabinet systems.

Findings:

√ Mold Testing:

- ERMI measurement rated the property in the high moderate range of mold burden with a combined group score of 2.6. The group 2 score was below the normal range. The mold species of *Penicillium spinulosum* and *Aureobasidium pullulans* were measured at elevated levels of concern. Based on these measurements, it appears the property interior has an abnormal mold condition caused by water intrusion into the crawl space and wood support structure; which has degraded the indoor air quality conditions of the interior.*
- Direct viable sampling of the interior visible mold at the dining room base cabinet drawer and the bathroom access cover confirmed mold growth of the mold species of: *Rhodotorula mucilaginosa* and *Penicillium griseofulvum*.*
- Direct Viable sampling measured mold contamination of the crawl space wood structure. The mold species of *Penicillium griseofulvum* and *Cladosporium cladosporoides* were measured as viable growth at the crawl space wood structure.*

√ Investigation:

Interior

- There were visible mold growth* at the wall cabinet drawer systems and the bathtub access door. This mold was emanating from the crawl space moist/microbial growth soil conditions as well as mold growth on the crawl space wood structures; entering the interior from subfloor openings at plumbing penetrations and other openings to the interior.
- There was a heavy mold smell* at the wall cabinets and the bathroom access. This malodor was emanating from the crawl space moist/microbial growth soil conditions as well as mold growth on the crawl space wood structures; entering the interior from subfloor openings at plumbing penetrations and other openings to the interior.
- Moisture meter tests were normal.
- Moisture damage was present at the dining room window sills. The moisture defect at this window system was reported as repaired.
- There was a ceiling opening at a hall closet to the attic, this condition degrades indoor air quality.
- See mold testing above.*

**The California Department of Public Health (2011) has concluded that the presence of water damage, dampness, visible mold, or mold odor in schools, workplaces, residences, and other indoor environments is unhealthy.*

HVAC

- The HVAC filter was dirty, this condition limits proper filtering of indoor air.
- The air return grill was dusty, this is an indication of poor interior air quality.

Crawl:

- Soil conditions indicated abnormal elevated moisture and water entry conditions, there was standing water at the soil near the access from the sprinkler system. Visible mold was confirmed at the wood structure.
- Openings at subfloor to interior (from historical building practice), this is resulting in additional air and abnormal microbial levels to enter into the interior.
- There was a heavy microbial malodor.

Exterior:

- Sprinkler system, this may result in over watering and moisture impact to the structure walls and crawl space soil/structure.
- Missing complete gutter and downspout system, this can allow for additional moisture impact to the foundation and crawl space.
- Grounds were not sloped away from the structure in all locations, this can result in additional moisture impact to the foundation and crawl space.
- Plants were touching the siding in some areas, this condition can degrade the exterior envelope and allow for moisture entry.
- The wood siding product was less than 6" above soil in some locations, this this condition can degrade the exterior envelope and allow for moisture entry.
- Roots were present near the foundation, this condition can result in foundation problems and water entry.

Recommendations:

1. Exterior:

- Installation of full gutter and downspout system with splash blocks.
- Slope soil away from the structure.
- Conversion of sprinklers to drip system and associated reduction of water usage for plants.
- Maintain plants so they do not touch the structure, or cover the crawl access.
- Evaluate root system to verify the the foundation has not been impacted.
- Lower soil tp 6” below siding system.

2. HVAC:

- Replace filter with allergy rated disposable type.
- Clean air return grill.

3. Crawl:

- Further evaluation of the crawl space elevated moisture soil condition by a geologist to determine elevated moisture prevention and drying strategies.
- Conversion to a conditioned space system to include: covering of soil with a plastic barrier (not to include covering of subsurface drains), dehumidifier and extraction fan.
- Mold remediation of the stained and mold growth areas of the wood structure using an abrasive process: e.g. dry ice.**
- (Investigate first item under section 4 before proceeding).
- Sealing of subfloor openings to interior with the application of a spary-on urethane product.

4. Interior:

- Removal and replacement of kitchen under sink shelf under containment (if the underside was not fully visible or cleanable from the crawl space).
- Level 2*** mold remediation of wall cabinet systems and bathtub access.
- Three step cleaning of all interior surfaces (including walls, but not ceilings) and personal items following Clean Trust standards: e.g. HEPA vacuum, Wet Wipe and HEPA vacuum.
- Seal opening at hall closet ceiling.

5. Post remediation inspection and testing:

- GPI to visually inspect crawl space mold remediation and conversion applications.
- Re-testing of the interior wall cabinets, bathtub access and general interior for mold levels, to determine if conditions have been met for normal fungal ecology.

Microbial Abatement Level Guidelines and Description(s)

General Guidelines:

Failure to adhere to the (CT) S520/S500 Remediation Procedures and other guidelines such as EPA, NYC, Cal OSHA, OSHA, AIHA, NIOSH, and ACGIH can result in inadequate microbial abatement as well as health hazards to workers and occupants of the property. In addition, an increase in “clearance testing” and cleaning costs may result from improper or inadequate remediation procedures.

Because of the potential health effects associated with elevated concentrations of microorganisms, only competent individuals familiar with the precautionary measures required should perform remediation. Specific guidelines governing this type of remediation are contained in (CT) S520, NY City Guidelines, and EPA (402-K-01-2001). In addition, general occupational safety is addressed by CAL-OSHA and in two Occupational Safety and Health Administration (OSHA) regulations. The general duty clause of the 1970 OSHA Act requires employers to provide a work environment "free from recognized hazards" and the 1987 Hazard Communication Standard provisions for employers to inform employees of chemical work-place hazards, including carcinogens, sensitizers and neurotoxins. Precautionary measures that may be required include - (1) negative pressurization, (2) physical isolation, (3) the use of respirators equipped with high efficiency particulate (HEPA) filters, (4) protective equipment for eyes and skin and (5) the use of asbestos abatement precautions.

The goal of remediation is to remove or clean contaminated materials in a way that prevents the emission of fungi and dust contaminated with fungi from leaving a work area and entering an occupied or non-abatement area, while protecting the health of workers performing the abatement as well as occupants.

The remediation methods listed were designed to achieve this goal; however, they are not meant to exclude other similarly effective methods and are not a substitute for a site-specific work plan. Since little scientific information exists that evaluates the effectiveness and best practices for mold remediation, these guidelines are based on principles used to remediate common indoor environmental hazards; it is the responsibility of the people conducting remediation to ensure the scope, methods, and engineering controls enacted are adequate. Mold remediation always requires some level of isolation of materials or containment. The lower level of containment or isolation involves sealing removed moldy materials in a plastic bag for disposal. Local area or full area containment decisions are made based on the type, level of mold burden and size of the probable area of growth and the potential for occupant exposure or building contamination without containment.

Any exclusions to the minimum remediation methods listed here should be carefully considered prior to implementation.

Prior to any remediation, consideration must also be given to the potential presence of other environmental hazards, such as asbestos and lead. These guidelines are based on possible health risks from mold exposure and may be superseded by standard procedures for the remediation of other indoor environmental hazards.

Cleaning Methods:

A vacuum equipped with a High-Efficiency Particulate Air (HEPA) filter could also be used to clean these adjacent areas. *Disinfectants are seldom needed to perform an effective remediation because removal of fungal growth remains the most effective way to prevent exposure.* Disinfectant use is recommended when addressing certain specific concerns such as mold growth resulting from sewage waters. If disinfectants are considered necessary, additional measures to protect workers and occupants may also be required. Disinfectants must be registered for use by the United States Environmental Protection Agency (EPA). *Any antimicrobial products used in a HVAC system must be EPA-registered specifically for that use.*

The use of gaseous, vapor-phase, or aerosolized (*e.g.* fogging) biocides for remedial purposes is not recommended. Using biocides in this manner can pose health concerns for people in occupied spaces of the building and for people returning to the treated space. Furthermore, the effectiveness of these treatments is unproven and does not address the possible health concerns from the presence of the remaining non-viable mold. Biocides are of limited use in remediation of indoor mold contamination for two main reasons:

1. Biocides do not remove allergens that can lead to allergies in sensitive individuals nor do they remove other metabolites from mold that can cause adverse reactions in some people. Even though the application of biocides may kill mold spores, the only way to remove the allergens and other metabolites is through the physical elimination of mold and moldy materials by thorough cleaning or removal.
2. Commonly used biocides do not effectively kill molds. For example, active fungal growth on a surface may produce a spore density of 1 million spores per square inch. Treating this site with a biocide that has an effectiveness of 99.999% would still leave an estimated 10 viable spores per square inch. As such, mold growth may recur if the underlying moisture problem is not resolved. Biocide treatments are indicated only when the contaminant is one of the few fungi that are known to cause human infection.

Cleaning and painting (encapsulation) should only be considered if removal and replacement is not an option and if the contamination area and extent is limited. EPA scientists have identified three effective paints that were tested as limiting microbial growth for cleaned areas of growth: Permawhite, M-1 Additive and Porterscept.

Quality Assurance Indicators:

Measures to ensure the quality and effectiveness of remediation should be undertaken regardless of the project size. Evaluations *during* as well as *after* remediation should be conducted to confirm the effectiveness of remedial work, particularly for large-scale remediation. At minimum, these quality assurance indicators should be followed and documented: The underlying moisture problem was identified and eliminated; Isolation of the work area was appropriate and effective; Mold removal and worksite cleanup was performed according to the site-specific plan; Any additional moisture or mold damage discovered during remediation was properly addressed; Upon completion of remediation, surfaces are free from visible dust and debris.; If environmental sampling was performed, the results of such sampling were evaluated by a trained building or environmental health professional. Restoring treated spaces should not be completed until these quality assurance steps are completed.

****Crawl Space Abatement :**

- a. GPI recommends that a national board certified ACAC and or CT mold remediation professional be retained for this project. It is recommended that (CT) S520 guidelines, CAL-OSHA, OSHA Hazard Communication Standard (29 CFR 1910.1200) and EPA asbestos and lead paint regulations be followed.
- b. Respiratory protection (*e.g.*, N95 disposable respirator), in accordance with the OSHA respiratory protection standard (29 CFR 1910.134), is recommended. Gloves and eye protection should be worn.

c. Containment of the work area is not necessary, but recommended, also airflow management is recommended; The work area should be covered with plastic sheet(s) and sealed with tape before remediation, to contain dust/debris. : Barrier tape and warning signs, as applicable, should be installed surrounding the affected areas. All applicable openings should be sealed, as required, with critical barriers constructed of 1 layer of (6 mil) flame retardant polyethylene.

All microbial contaminated waste should be double bagged or wrapped in (6 mil) flame retardant polyethylene. Waste bags should be transparent, leak tight. All contaminated waste should be disposed of in an appropriate waste landfill.

d. Contaminated materials that cannot be cleaned should be removed from the building in a sealed plastic bag. There are no special requirements for the disposal of moldy materials.

e. The work area and areas used by remedial workers for egress should be deep cleaned. Bleach and other Biocides are not recommended.

f. All areas should be left dry and visibly free from contamination and debris.

g. HVAC filtration replacement and upgrades should be implemented.

h. Bleach and other Biocides are not recommended. Encapsulant should not be applied prior to post-remediation assessment.

***** Level 2 Mold Remediation; Wall Cabinets and Bathtub Access:**

a. GPI recommends that a national board certified ACAC and or CT mold remediation professional be retained for this project. It is recommended that (CT) S520 guidelines, CAL-OSHA, OSHA Hazard Communication Standard (29 CFR 1910.1200) and EPA asbestos and lead paint regulations be followed.

The following procedures *at a minimum* are recommended:

b. Respiratory protection (e.g., N95 disposable respirator), in accordance with the OSHA respiratory protection standard (29 CFR 1910.134), is recommended. Gloves and eye protection should be worn.

c. The work area should be unoccupied. Vacating people from spaces adjacent to the work area is not necessary but is recommended in the presence of infants (less than 12 months old), persons having undergone recent surgery, immune suppressed people, or people with chronic inflammatory lung diseases (e.g., asthma, hypersensitivity pneumonitis, and severe allergies), and persons diagnosed with fungal related diseases.

d. The work area should be covered with plastic sheet(s) and sealed with tape before remediation, to contain dust/debris. : Barrier tape and warning signs, as applicable, should be installed surrounding the affected areas. All applicable openings should be sealed, as required, with critical barriers constructed of 1 layer of (6 mil) flame retardant polyethylene.

All microbial contaminated waste should be double bagged or wrapped in (6 mil) flame retardant polyethylene. Waste bags should be transparent, leak tight. All contaminated waste should be disposed of in an appropriate waste landfill.

The designated work area should include taping along seams, isolating HVAC system, sealing all openings, caulking or foaming any cracks, and regulated HEPA filtered intake air

from outside and a HEPA negative air system exhausting the work area to outside, as required. Bilingual warning signs must be properly posted.

Provide 5 to 7 PASCAL's of negative air pressure, as required, within the containment area utilizing variable speed, thermal protected HEPA air filtration system with a primary two stage poly filter with 35% efficiency; a secondary pleated poly filter with 70% efficiency; and a final HEPA filter with 99.97% @.3 micron efficiency rating. Utilize carbon assisted HEPA air polishers for 24 hours to provide final level of microbial remediation.

Provide mechanical dehumidifiers of sufficient capacity to create an effective drying system.

e. Proper disposal of all semi-porous and porous building material items that cannot be properly cleaned should be performed. Decontamination of all non-porous items will be done, as required, by using state-of-the-art methodology (damp wiping and HEPA vacuuming).

f. Decontaminated personal items, if any, should be removed and stored in a clean uncontaminated area or moved off site, by owner, for storage, as required.

g. All non-porous items should be cleaned using damp wiping and HEPA vacuuming methodology.). Non-porous items include, but are not limited to tile, varnish covered wood, glass, metal, plastic, etc.

h. The work area and areas used by remedial workers for egress should be HEPA vacuumed (a vacuum equipped with a High-Efficiency Particulate Air filter) and deep cleaned. All appropriate equipment (HEPA vacuums, dehumidifiers, negative air machines, etc.) must have status cards attached to the equipment and they shall have permanent stenciled serial numbers on the equipment. Bleach and other Biocides are not recommended.

i. All areas should be left dry and visibly free from contamination and debris.

j. HVAC filtration replacement and upgrades should be implemented.

II. Methods and Procedures

Description of Specialized Inspection Instruments:

Moisture Meter

The presence of moisture on the surface of building materials or inside structural components is the primary factor in sustaining microbial growth, which may lead to exposure to microbial emissions of spores, mycotoxins and microbial Volatile Organic Compounds (mVOCs).

To avoid microbial growth, it is recommended that moisture content of structure wood products be below 15%. Other building and construction materials, such as drywall and plaster, should measure at or below the baseline reading(s) taken from dry or unaffected materials of similar composition. All elevated moisture findings are confirmed with two moisture meter instruments to avoid false negatives or positives. There are two types of moisture meters typically used in the microbial industry. Pin-type meters, which utilize the principle of electrical resistance. Pin-less meters use radio frequency signals to penetrate the material being tested. GPI moisture meters currently in use are: HydroPro 1 (Pin-type) and General MMD5NP (Pin-less).

Sampling Methodology

Microbial Accredited Laboratory

Samples are collected and submitted to an independent accredited microbial laboratory: EMLab, EMSL, Mycometrics, Hayes, Assured Bio Technology or Aerotech. Samples are typically delivered to the lab by the investigator or express mailed.

Since important health, remediation and financial decisions will be based on results of these analyses, it is vital that the laboratory analyzing the samples be proficient in producing high quality data. EMLab, EMSL, Mycometrics, Hayes, Assured Bio Technology, and Aerotech have the distinction of having an AIHA EMLAP accredited labs. The accreditation complies with International Standard ISO/IEC 17025, general requirements for the competence of testing and calibration laboratories. When a laboratory is accredited by AIHA, the laboratory and its clients have the assurance that the laboratory has met defined standards for performance based on examination of a variety of criteria. When a laboratory is accredited by AIHA, it becomes part of an elite group of laboratories achieving and maintaining a high level of professional performance.

AIHA's EMLAP program is designed for laboratories specializing in analysis of microorganisms commonly detected in air, fluids and bulk samples, as part of IAQ investigations. The AIHA accreditation program is a rigorous, thorough and lengthy process involving all operations and personnel of the accredited site. The scope and program requirements for EMLAP accreditation include: Personnel Qualifications, Methods of Analysis, Quality Assurance, Laboratory Records, Standard Operating Procedures, Facilities, Site Visits & Participation in the EMPAT program.

Analysis Methods

DNA Mold Testing, Environmental Relative Moldiness Index (ERMI)

The ERMI has been developed by EPA (Environmental Protection Agency) scientists. The ERMI is a sophisticated statistical method by which to compare and interpret fungal data using state of the art DNA test methods. ERMI was developed as a screening tool to evaluate potential risk of indoor mold growth problem. Using ERMI protocols, targeted mold species can be quantified bio-chemically. Mold species are divided into two groups by the ERMI. The first group of 26 indicator species represents molds associated with water damage and the other second group represents common indoor molds. The ERMI report includes the detection and concentrations of all 36 mold species along with the combined ERMI value itself. This provides a rank of the “moldiness” to compare the results to a national scale, based on a national HUD survey of 1,096 homes. An ERMI score is used in conjunction with individual mold species quantifications to determine mold conditions. More recent research also considers the value of “group two” molds as an indicator of problem mold conditions.

The preferred method collects dust from a measured floor area with the AccuDust™ sample collection kit. The dust sample will contain not only mold spores (like previous test methods) but also mold particles (which may also be allergenic and toxic) that have settled out of the air onto carpet, floor or surfaces. The dust is then analyzed in the laboratory using a DNA-based technology called mold-specific quantitative polymerase chain reaction, or MSQPCR. The results of the test provide a scientifically derived value between about –10 to 20 (or rarely above 20) that is compared to the national ERMI scale to determine the relative moldiness of the sampled home or business. The ERMI is not meant as an instantaneous measure of moldiness, but a long term history of the mold growth in the particular indoor environment.

ERMI values have now been correlated with laboratory assays and negative health symptoms. Further, after medical treatment, and re-occupation of the home (provided the post-remediation ERMI score is below an accepted value), treatment benefit has been reported as maintained by current researchers.

Direct Surface/Bulk

Substrates suspected of microbial contamination should be sampled to identify sources of airborne contamination. When mold/microbial or suspected mold/microbial is visible, direct surface sampling is recommended. This sample method can help determine types of microbials that are present, however it is not a reliable measure of the quantity of mold/bacteria that may be present in the indoor environment. A swab or bulk cultured analysis of a direct sample is considered the best method of analysis. The cultured method may help resolve a specific microbial species identification problem. Cultured sampling can also provide information on: mold spore counts, fungal growth, bacterial, sewage, E. Coli/Coliform, Legionella, and yeast ID. Tape lift or swab direct samples are also useful for non-cultured analysis and provide for a quicker result turn around.

Direct sampling does not provide information about other mold/bacteria which are not directly on the sampled spot.

Visible microbial contamination that is confirmed by direct surface sampling is evidence of indoor contamination (ACGIH), however it is not a confirmation of exposure levels.

III. Health Concerns

Microbial Exposure

Recent Research

Shoemaker (2010) identifies “Mold illness” as a subcategory of biotoxin illness, called Chronic Inflammatory Response Syndrome (CIRS). CIRS is defined as: an acute and chronic, systemic inflammatory response syndrome acquired following exposure to the interior environment of a water-damaged building (WDB) with resident toxigenic organisms, including, but not limited to fungi, bacteria, actinomycetes and mycobacteria as well as inflammagens such as endotoxins, beta glucans, hemolysins, proteinases, mannans, c-type lectins and possibly spirocyclic drimanes, plus volatile organic compounds. The *EPA* has indicated that 21% of all new cases of asthma are due to exposure to WDB.

The *California Department of Public Health* (2011) has concluded that the presence of water damage, dampness, visible mold, or mold odor in schools, workplaces, residences, and other indoor environments is unhealthy.

Human health studies have led to a consensus among scientists and medical experts that the presence in buildings of (a) visible water damage, (b) damp materials, (c) visible mold, or (d) mold odor indicates an increased risk of respiratory disease for occupants. Known health risks include: the development of asthma, allergies, and respiratory infections; the triggering of asthma attacks; and increased wheeze, cough, difficulty breathing, and other symptoms. In addition, evidence is accumulating, although not yet conclusive, that the more extensive, widespread, or severe the water damage, dampness, visible mold, or mold odor, the greater the health risks.

The *U.S. Government and Accountability Office* (2008) Indoor Mold Report indicated that indoor mold poses a widespread and, for some people, a serious health threat. The GAO report concluded that certain adverse health effects are more clearly associated with exposure to indoor mold than others. The Institute of Medicine reported that some respiratory effects, such as exacerbation of pre-existing asthma, are associated with exposure to indoor mold but that the available evidence was not sufficient to determine whether mold and a variety of other health effects, such as the development of asthma, cancer, and acute pulmonary hemorrhage in infants, are associated. While the research examined in this report generally agreed with these conclusions, a few judged the evidence for some health effects as somewhat stronger. For example, the American Academy of Pediatrics concluded in 2006 that a plausible link exists between acute pulmonary hemorrhage in infants and exposure to toxins that some molds produce.

IV. Best Practice, Limitations, and Code of Conduct

Best Practice and Limitations

This report is designed to provide guidance as to the inspected and or sampled location(s) having a suspected microbial and or indoor air quality problem as well as further actions that should be considered to develop specific testing or remediation specifications. Guaranteed Property Inspection and Mold Investigation, Inc. (GPI) is not responsible to identify or find hidden moisture damage, air quality, microbials or other hazards, which are not readily visible, or identified by third party laboratory results. If hidden moisture, microbials or other indoor air quality problems are found, the client should retain GPI to further investigate. This report should be submitted for further recommendations from a certified CT, ACAC, or a qualified indoor environmental state licensed consultant i.e. asbestos, VOC's, radon, and or lead.

Individuals with health problems should see their physicians for a referral to practitioners who are trained in environmental medicine or related specialties and are knowledgeable about these types of exposures.

GPI follows protocols based on the appropriate Standards of Practice and guidelines for investigation, sample collection and the assessment of indoor environments for microbial contamination, and air quality problems of the: American Conference of Governmental Industrial Hygienists (ACGIH), American Industrial Hygiene Association (AIHA), American Council for Accredited Certification (ACAC), New York City Health Department (NYC), California Department of Health, Environmental Protection Agency (EPA), Asbestos Hazard Emergency Response Act (AHERA), CT, American Society of Home Inspectors (ASHI) and the California Real Estate Inspectors Association (CREIA).

This report applies only to those areas of investigation and or sample collection approved, as well as directed by the client and taken at the time, place and location referenced by this report. Sample recommended protocols by GPI are often limited by client directives based on a goal to reduce costs. Limited investigation and sampling as directed by the client may result in partial information for findings and written remediation specifications. If the client has limited recommended tests or areas of investigation, the client understands that other consulting professionals may request additional testing and inspection information to provide further recommendations.

This report was designed by GPI following current industry best practice guidelines for the interpretation of microbial and air quality investigation, sampling and analysis. Interpretation of these parameters is a scientific work in progress and may as such be changed at any time without notice. As such, this report is unique for the property identified and should be considered a living document. GPI reserves the right to modify its contents as needed to reflect new industry science or site findings. GPI makes no express or implied warranties or guarantee as to such use or interpretation, or sole reliance on this report and as to the testing methodology used. The client is solely responsible for the use of these tests and report results.

Reports are generated by GPI at the request of, and for the exclusive use of, the person or entity (client) named on this report, further it is assumed that the correction of the underlying cause of air quality or microbial contamination is the responsibility of the client or property owner and not GPI. Reliance on or use of this copyrighted report by anyone other than the client, for whom it was prepared, is prohibited. No part of this document may be reproduced without the permission of the author, GPI, Irvine, CA 92603. No responsibility is assumed by the

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If recommended in this report, the testing, removal and cleaning of contaminated or hazardous materials should be undertaken only by properly certified and qualified professionals with adequate precautions, since disturbance of contaminated materials can impact the health of remediation workers and occupants.

GPI has applied best practice standards of practice to perform this analysis report, but this evaluation may have been limited in scope to the areas of investigation and testing by client directive.

Applicability, limitations and exclusions include but are not limited to:

- 1.1 The inspection is a non-invasive visual survey of the structure.
 - a. The inspection is limited to visible areas that are deemed by the inspector as easily accessible, and does not pose a physical hazard or damage/alter the structure or its contents, including but not limited to, attic space, crawl space, or roof access.
 - b. Inspector does not move or alter any contents of the structure to gain access for inspection.
 - c. Inspector does not operate or adjust any fixture or valve.
- 1.2 The results and recommendations made by the inspector relative to this standard are limited to ruling out significant sources of contamination.
- 1.3 Identification of suspect areas is not intended to be a health risk assessment for the occupants.
- 1.4 It is not intended that the full scope and or cost of remedial action is to be final based on the results and recommendations made by this inspector relative to this standard.
- 1.5 The inspector does not maintain a business relationship with any moisture or mold remediation companies or repair contractors.
- 1.6 The results and recommendations made by the inspector relative to this standard are applicable only to the area(s) inspected by client directive.
- 1.7 Inspections performed rely upon the opinion, judgment and experience of the inspector, and are not intended to be technically exhaustive.
- 1.8 Sample collections shall not be construed as a compliance sample collection of any code, governmental protocol, or regulation. In the event a law, statute, or ordinance prohibits a procedure recommended, the inspector is relieved of the obligation to adhere to the prohibited part of the standard.

1.9 Findings in this report are limited to the date, time, and area of investigation.

2.0 No warranties are made with respect to the contents of this report. GPI cannot guarantee that individuals and environments will be free of hazards exposure. Due to the nature of air quality hazards, contaminants can be hidden and unknown in areas of this property; GPI cannot be held responsible if the client, remediation personnel, inspectors, dogs (or other non-scientific approaches), current or future property owners discover such areas.

Code of Conduct:

Preamble: The American Council for Accredited Certification is a professional association that serves as a certifying body for those in the multi-disciplinary field of indoor air quality. The Board of Directors has adopted, and commends to its certificants, the following code of conduct.

Objective: The objective of this code is to provide standards of appropriate conduct for the certificants of the American Council for Accredited Certification as they engage in their individual professions, seeking to ensure the protection of individuals and their property from IAQ concerns.

Rules of Conduct: Certificants of the American Council for Accredited Certification shall:

Practice their respective professions following accepted Indoor Air Quality standards and guidelines.

Exercise caution not to misrepresent their credentials, training or experience when performing Indoor Air Quality services.

Deal responsibly in advising parties regarding potential damage to property and/or risk to health.

Maintain confidentiality concerning both personal and business information gathered in the performance of their professions, except in the case of overriding legal and/or health concerns.

Avoid instances where potential conflict of interest or compromise of professional judgment may occur.

Act with integrity to uphold the standards of their profession and of the Council and avoid any conduct that could adversely reflect on the Council and its certificants.

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HMC Job#: 127136



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Mold Analysis Report prepared for

Guaranteed Property Inspections

114 Weathervane
Irvine, CA 92603

Ph. 949-230-6800 Fax. 949-509-9749

Job Number:

Job Name: IRWD

Date Sampled: 8/7/2012

Date Analyzed: 8/17/2012

AIHA EMPAT Laboratory ID# 188863



LAB #188863

AIHA Accredited
Environmental Microbiology



American Society for
Clinical Pathology

Certified Clinical Microbiologist

B - 17



3005 E. Boundary Terrace / Suite F
 Midlothian, VA 23112
 Ph. 804-562-3435 Fax. 804-447-5562

Culture Analysis
 SOP #HMC-105
 HMC#: 127136

Customer Guaranteed Property Inspections 114 Weathervane Irvine, CA 92603 Ph. 949-230-6800 Fax. 949-509-9749	Job Number: Job Name: IRWD	Collected by: Steve Zivolich Email: gpinspect@cox.net Date Collected: 8/7/2012 Date Received: 8/9/2012 Date Reported: 8/17/2012
---	---	--

HMC ID Number:	127136 - 1	Sample Type:	Swab	Limit of Detection:	100 CFU / in2
Sample ID #:	1	Sample Name:	45 Drawer		
Organism	Raw Count	CFU / in2	Notes		
Penicillium griseofulvum	76	7,600			
Rhodotorula mucilaginosa	13	1,300			

HMC ID Number:	127136 - 2	Sample Type:	Swab	Limit of Detection:	100 CFU / in2
Sample ID #:	2	Sample Name:	45 Bath Access		
Organism	Raw Count	CFU / in2	Notes		
Penicillium griseofulvum	124	12,400			

HMC ID Number:	-	Sample Type:		Limit of Detection:	CFU / in2
Sample ID #:		Sample Name:			
Organism	Raw Count	CFU / in2	Notes		

B-18

Signature: Stephen A. Hayes

Date: 8/17/2012

Reviewed by: Chris Slavick

Penicillium	Habitat: Often the most common type of fungi isolated from the environment. They are common indoors as well, and are found in house dust, water-damaged papers, fabrics, behind or on paint, and in fiberglass duct insulation. They are also found in a variety of food products.
	Health Effects: It is a common allergen and an agent of hypersensitivity pneumonitis. Toxins are produced by various species. The production of volatile organic compounds has also been demonstrated. Most species are non-pathogenic, but <i>Penicillium marneffei</i> is a human pathogen in immunocompromized people.
Rhodotorula	Habitat: A yeast that is common in air, soil, water and dairy products.
	Health Effects: Reported to be allergenic and may cause disease in immunocompromized patients.

HMC Job#: 127186



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Mold Analysis Report prepared for
Guaranteed Property Inspections

**114 Weathervane
Irvine, CA 92603**

Ph. 949-230-6800 Fax. 949-509-9749

Job Number:

Job Name: IRWD

Date Sampled: 8/8/2012

Date Analyzed: 8/18/2012

AIHA EMPAT Laboratory ID# 188863



LAB #188863

**AIHA Accredited
Environmental Microbiology**



**American Society for
Clinical Pathology**

Certified Clinical Microbiologist

B - 20



3005 E. Boundary Terrace / Suite F
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Culture Analysis
SOP #HMC-105
HMC#: 127186

Customer Guaranteed Property Inspections 114 Weathervane Irvine, CA 92603 Ph. 949-230-6800 Fax. 949-509-9749	Job Number: Job Name: IRWD	Collected by: Steve Zivolich Email: gpinspect@cox.net Date Collected: 8/8/2012 Date Received: 8/13/2012 Date Reported: 8/18/2012
---	---	---

HMC ID Number:	127186 - 1	Sample Type:	Swab	Limit of Detection:	100 CFU / in2
Sample ID #:	1	Sample Name:	Sage Crawl		
Organism	Raw Count	CFU / in2	Notes		
Aureobasidium pullulans	17	1,700			
Penicillium griseofulvum	43	4,300			

HMC ID Number:	127186 - 2	Sample Type:	Swab	Limit of Detection:	100 CFU / in2
Sample ID #:	2	Sample Name:	Green Crawl		
Organism	Raw Count	CFU / in2	Notes		
Cladosporium cladosporoides	3	300			
Penicillium griseofulvum	31	3,100			

HMC ID Number:	127186 - 3	Sample Type:	Swab	Limit of Detection:	100 CFU / in2
Sample ID #:	3	Sample Name:	Blue Crawl		
Organism	Raw Count	CFU / in2	Notes		
Penicillium griseofulvum	36	3,600			

B - 21

Signature: Stephen N. Hayes

Date: 8/18/2012

Reviewed by: Chris Schalk

Aureobasidium	Habitat:	A yeast-like fungus that is found in soil and areas of high moisture content.
	Health Effects:	A known type I and III allergen.
Cladosporium	Habitat:	One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts.
	Health Effects:	A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.
Penicillium	Habitat:	Often the most common type of fungi isolated from the environment. They are common indoors as well, and are found in house dust, water-damaged papers, fabrics, behind or on paint, and in fiberglass duct insulation. They are also found in a variety of food products.
	Health Effects:	It is a common allergen and an agent of hypersensitivity pneumonitis. Toxins are produced by various species. The production of volatile organic compounds has also been demonstrated. Most species are non-pathogenic, but <i>Penicillium marneffei</i> is a human pathogen in immunocompromized people.



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<http://www.emsl.com> E-mail: MicrobiologyLab@emsl.com

EMSL Order: **371212159**
 CustomerID: **32GPI80**
 Customer PO:
 ProjectID:

Attn: **Steve Zivolich**
GPI
114 Weathervane
Irvine
CA 92603
 Project: IR UD 2

Phone: 949-230-6800
 Fax:
 Collected:
 Received: 8/8/2012
 Analysis date: 8/13/2012

Analytical Results

EMSL - Results ERMI Analysis EMSL Test Code: M180

Based on USA EPA SOP MERB-020, Revision No. 3, 7/11/02

Lab Sample Number	Client Sample ID	Sample Location	Sample Size	EMSL Order#
371212159-1	45	Master/Den	5 mg	371212159

ERMI Value:	2.6
ERMI Interpretation*	Level 3

Your Result Indicator





Level 4: ERMI Value > 5, High Relative Moldiness. Further investigation needed to determine the sources of this mold.



ERMI Value > -4 to 0 (Level 2) and > 0 to ≤ 5 (Level 3), Moderate Relative Moldiness. Further investigation needed to determine if sources of mold exists.



Level 1: ERMI Value ≤ -4, Low Relative Moldiness. It is unlikely you have a mold problem.

* Developed by EPA researchers, the ERMI is an acronym for Environmental Relative Moldiness Index. The mold burden of a home can be defined by two factors; the quantity of each mold species and the diversity of species present. The ERMI takes into account both of these factors and measures the long term mold burden. A relatively new water damage event with ensuing mold growth may not be detected by the ERMI as the spores must undergo an equilibration period and collect in household dust. Other changes in the home, such as new carpets, must be interpreted in conjunction with the ERMI result.

Fungal spores are found everywhere. Whether or not symptoms develop in people exposed to fungi depends on the nature of the fungal material (e.g., allergenic, toxic, or infectious), the exposure level, and the susceptibility of exposed persons. Susceptibility varies with the genetic predisposition (e.g., allergic reactions do not always occur in all individuals), age, pre-existing medical conditions (e.g., diabetes, cancer, or chronic lung conditions), use of immunosuppressive drugs, and concurrent exposures. These reasons make it difficult to identify dose/response relationships that are required to establish "safe" or "unsafe" levels (i.e., permissible exposure limits).

It is generally accepted in the industry that indoor fungal growth is undesirable and inappropriate, necessitating removal or other appropriate remedial actions. Always remember that water is the key. Preventing water damage or water condensation will prevent mold growth. This report is not intended to provide medical advice or advice concerning the relative safety of an occupied space. Always consult an occupational or environmental health physician who has experience addressing indoor air contaminants if you have any questions.



USEPA License No: 0240-02

Initial Report From: 8/13/2012
 Amended Report From: Initial Report

Quanyl L.

Approved EMSL Signatory
 Quanyl "Charlie" Li, Ph.D.

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Lab Sample Number	Client Sample ID	Sample Location	Sample Size	EMSL Order#
371212159-1	45	Master/Den	5 mg	371212159

Environmental Relative Moldiness Index (ERMI) by Mold Specific Quantitative Polymerase Chain Reaction (MSQPCR)

Lab Sample Number	371212159-1
Client Sample ID	45
Sample Location	Master/Den
Sample size	5mg Dust
EPA 36 Species Identification Group 1	Spores E./ mg dust
<i>Aspergillus flavus</i>	ND
<i>Aspergillus fumigatus</i>	ND
<i>Aspergillus niger</i>	ND
<i>Aspergillus ochraceus</i>	ND
<i>Aspergillus penicillioides</i>	ND
<i>Aspergillus restrictus</i>	ND
<i>Aspergillus sclerotiorum</i>	ND
<i>Aspergillus sydowii</i>	ND
<i>Aspergillus unguis</i>	ND
<i>Aspergillus versicolor</i>	ND
<i>Eurotium (A.) amstelodami</i>	ND
<i>Aureobasidium pullulans</i>	5,868
<i>Chaetomium globosum</i>	ND
<i>Cladosporium sphaerospermum</i>	ND
<i>Paecilomyces variotii</i>	5
<i>Penicillium brevicompactum</i>	15
<i>Penicillium corylophilum</i>	ND
<i>Penicillium crustosum (group2)</i>	ND
<i>Penicillium purpurogenum</i>	4
<i>Penicillium spinulosum</i>	82
<i>Penicillium variabile</i>	ND
<i>Scopulariopsis brevicaulis</i>	ND
<i>Scopulariopsis chartarum</i>	3
<i>Stachybotrys chartarum</i>	ND
<i>Trichoderma viride</i>	ND
<i>Wallemia sebi</i>	ND
Group 1 Sum of the Logs	8.6

Lab Sample Number	371212159-1
Client Sample ID	45
Sample Location	Master/Den
Sample size	5mg Dust
EPA 36 Species Identification Group 2	Spores E./ mg dust
<i>Acremonium strictum</i>	ND
<i>Alternaria alternata</i>	ND
<i>Aspergillus ustus</i>	ND
<i>Cladosporium cladosporioides I</i>	520
<i>Cladosporium cladosporioides II</i>	ND
<i>Cladosporium herbarum</i>	5
<i>Epicoccum nigrum</i>	402
<i>Mucor and Rhizopus group</i>	1
<i>Penicillium chrysogenum</i>	ND
<i>Rhizopus stolonifer</i>	ND
Group 2 Sum of the Logs	6.0

Interpretation Key Group 2 Sum of the Logs

	≤ 2 or ≥ 20 -- Less than or equal to 2 or Greater than or equal to 20
<input checked="" type="checkbox"/>	> 2 and < 20 -- Greater than 2 or Less than 20

ERMI Value:	2.6	
ERMI Interpretation*	Level 3	

Interpretation Key ERMI Value

	Level 4: ERMI Value > 5, High Relative Moldiness. Further investigation needed to determine the sources of this mold.
	ERMI Value > 4 to 0 (Level 2) and > 0 to ≤ 5 (Level 3), Moderate Relative Moldiness. Further Investigation needed to determine if sources of mold exists.
<input checked="" type="checkbox"/>	Level 1: ERMI Value ≤ 4, Low Relative Moldiness. It is unlikely you have a mold problem.

Initial Report From: 8/13/2012
 Amended Report From: Initial Report

Quanyi L.
 Approved EMSL Signatory
 Quanyi "Charlie" Li, Ph.D.

Lab Sample Number	Client Sample ID	Location	Sample Size
371212159-1	45	Master/Den	5 mg

1. Description of Analysis

Analytical Laboratory:

EMSL Analytical, Inc (EMSL) is a nationwide, full service, analytical testing laboratory network providing Asbestos, Mold, Indoor Air Quality, Microbiological, Environmental, Chemical, Forensic, Materials, Industrial Hygiene and Mechanical Testing services since 1981. Ranked as the premier independently owned environmental testing laboratory in the nation, EMSL puts analytical quality as its top priority. This quality is recognized by many well-respected federal, state and private accrediting agencies, such as AIHA's EMLAP and EMPAT programs, and assured by our high quality personnel, including many Ph.D. microbiologists and mycologists.

EMSL is an independent laboratory that performed the analysis of these samples. EMSL did not conduct the sampling or site investigation for this report. The samples referenced herein were analyzed under strict quality control procedures using state-of-the-art molecular methods.

Analytical Method:

Mold specific quantitative polymerase chain reactions (MSQPCR) was developed by a team of EPA researchers. MSQPCR utilizes EPA-patented molecular diagnostics methods for detecting and quantifying species of mold. The benefits of this technology include:

- A fast, accurate, and sensitive DNA-based analytical method for identifying and quantifying molds to the species level.
- Looks for the presence of DNA sequences that are unique to a particular mold species.
- Utilizes a DNA sequence detection system to monitor the presence and concentration of a specific mold in "REAL TIME". As a mold-unique sequence is detected and amplified, fluorescent signal molecules are simultaneously released and measured. No fluorescence = no target mold.

Real-Time PCR is a DNA-based analytical method. What is DNA?

- DNA is a nucleic acid that carries the genetic information that is unique to every organism. DNA sequences determine individual hereditary characteristics.
- DNA can be found in every cell in every living (or previously living) organism. For example, humans have DNA in their skin cells and blood cells and fungi have DNA in their spores and hyphae.

ERMI Development:

EPA researchers developed the Environmental Relative Moldiness Index (ERMI) in order to standardize the sampling and analytical methods available to indoor air quality consultants, researchers, and homeowners. The long term goal is to help better understand the risks of mold exposure to the health of occupants. The ERMI specifically measures the mold-burden in a home. The ERMI consists of values for 36 molds broken down into two groups, 26 in group 1; that represented the species associated with water-damaged environments, and 10 species in group 2; that are considered common mycoflora in homes.

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Lab Sample Number	Client Sample ID	Location	Sample Size	
371212159-1	45	Master/Den	5 mg	371212159

The US Department of Housing and Urban Development conducted the American Health Homes Survey in 2006. As part of this study, dust samples were collected from the bedroom and living room of 1096 homes across the US. Each composite sample was tested by MSQPCR for the ERMI. From this study, researchers were able to develop the following ERMI scale:

2. Understanding the Results

EMSL Analytical, Inc. is an independent laboratory, providing unbiased and scientifically valid results. These data represent only a portion of an overall IAQ Investigation. Visual information and environmental conditions measured during the site assessment (humidity, moisture readings, etc.) are crucial to any final interpretation of the results. Many factors impact the final results; therefore, result interpretation should be conducted with caution.

ERMI Interpretation:

The mold burden of a home can be defined by two factors; the quantity of each mold species and the diversity of species present. The ERMI takes into account both of these factors and measures the long term mold burden. A relatively new water damage event with ensuing mold growth may not be detected by the ERMI as the spores must undergo an equilibration period. Other changes in the home, such as new carpets, must be interpreted in conjunction with the ERMI result.

The ERMI consists of the Group 1 water damage Indicator species and the Group 2 commonly occurring species. There are cases whereby species found in one group could easily be categorized in the other group but in general the grouping holds true. Also the ERMI uses a combination of 36 molds to determine the mold burden in a home and does not rely on one or two species. Homes with an ERMI value above 0 are more likely to have a mold problem. Homes with an ERMI value above 5 have the greatest likelihood of having a mold problem. Homes with an ERMI value below 0 are less likely of having a mold problem and homes with an ERMI below -4 are the least likely of having a mold problem.

Figure 1 shows the distribution of the sum of the logs of the Group 2 species from the American Health Homes Survey conducted by HUD. If the reported Group 2 value falls towards the outside of either end of this scale then a reason must be sought. For example, if your Group 2 value is 1 meaning there are fewer common molds than we would have expected in a normal home. Perhaps it is a new construction or recently remediated environment. If you have a very high group two value (>20), it may be possible that the home is contaminated with species found in Group 2 and is not representative of normal background levels.

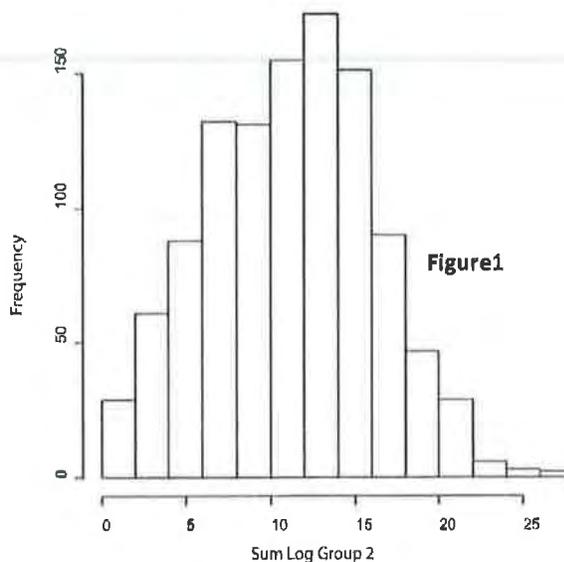
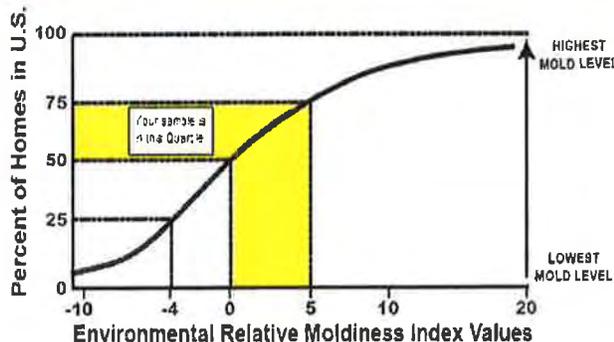
Fungal spores are found everywhere. Whether or not symptoms develop in people exposed to fungi depends on the nature of the fungal material (e.g., allergenic, toxic, or infectious), the exposure level, and the susceptibility of exposed persons. Susceptibility varies with the genetic predisposition (e.g., allergic reactions do not always occur in all individuals), age, pre-existing medical conditions (e.g., diabetes, cancer, or chronic lung conditions), use of immunosuppressive drugs, and concurrent exposures. These reasons make it difficult to identify dose/response relationships that are required to establish "safe" or "unsafe" levels (i.e., permissible exposure limits).

The results herein do not denote or represent a medical or clinical diagnosis or conclusion. Interpretation of the data is the responsibility of the client.

Initial Report From: 8/13/2012
 Amended Report From: Initial Report

Quanyi L.
 Approved EMSL Signatory
 Quanyi 'Charlie' Li, Ph.D.

The ERMI Interpretation graph below is based on your results.



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Lab Sample Number	Client Sample ID	Location	Sample Size	
371212159-1	45	Master/Den	5 mg	371212159

It is generally accepted in the industry that indoor fungal growth is undesirable and inappropriate, necessitating removal or other appropriate remedial actions. The New York City guidelines and EPA guidelines for mold remediation in schools and commercial buildings define the conditions warranting mold remediation. Always remember that water is the key. Preventing water damage or water condensation will prevent mold growth.

This report is not intended to provide medical advice or advice concerning the relative safety of an occupied space. Always consult an occupational or environmental health physician who has experience addressing indoor air contaminants if you have any questions.

Detection of multiple organisms in real-time q-PCR assays:

Certain species of mold are too genetically similar to be distinguished by MSQPCR. Thus positive or negative detection of any of these molds also suggests positive or negative detection of their genetically similar counterparts.

Eurotium (Aspergillus) amstelodami / chevalieri / herbariorum / rubrum / repens

Aspergillus flavus / oryzae

Aspergillus fumigatus, Neosartorya fischeri

Aspergillus niger / foetidus / phoenicus

Aspergillus restrictus / caesillus / conicus

Mucor and Rhizopus group / Mucor amphibiorum / circinelloides / heimalis / indicus / mucedo / racemosus / ramosissimus and Rhizopus

Penicillium chrysogenum / griseofulvum / glandicola / coprophilum / expansum and Eupenicillium crustaceum / egyptiacum

Penicillium crustosum / camembertii / commune / echinulatum / solitum

Penicillium spinulosum / glabrum / lividum / thomii / purpurescens

Scopulariopsis brevicaulis / fusca

Trichoderma viride / atroviride / koningii

Positive and negative controls:

A positive control is performed with every sample to prevent false negatives and to ensure the success of PCR amplification. An Internal sample control is performed with every sample to test the success of DNA extraction and presence of inhibitors. It is also used for quantitative purposes. Negative controls are performed for each species tested for each client project in order to rule out laboratory contamination as the source of any positively detected molds and to prevent false positives. These controls are necessary to ensure quality results.

Lab Sample Number	Client Sample ID	Location	Sample Size	
371212159-1	45	Master/Den	5 mg	371212159

3. References and Informational Links

Articles

Quantification of *Stachybotrys chartarum* conidia in indoor dust using real time, fluorescent probe-based detection of PCR products. 2001. Jennie D Roe, Richard A Haugland, Stephen J Vesper and Larry J Wymer. JEAE Vol.11.

Rapid Monitoring by Quantitative Polymerase Chain Reaction for Pathogenic *Aspergillus* During Carpet Removal From a Hospital. 2004. Alice N. Neely, PhD, Vince Gallardo, MS, Ed Barth, MS, Richard A. Haugland, PhD, Glenn D. Warden, MD, and Stephen J. Vesper, PhD. *Infection Control and Hospital Epidemiology*, Vol. 25.

Quantitative Polymerase Chain Reaction Analysis of Fungi in Dust From Homes of Infants Who Developed Idiopathic Pulmonary Hemorrhaging. 2004. Vesper, Stephen J. PhD; Varma, Manju PhD; Wymer, Larry J. MS; Dearborn, Dorr G. MD, PhD; Sobolewski, John MS; Haugland, Richard A. PhD. *Journal of Occupational & Environmental Medicine*. 46(6):596-601.

Real-time PCR analysis of molds is performed at EMSL Analytical, Inc. in agreement with the Patent License Agreement between EMSL Analytical, Inc. and the United States Environmental Protection Agency's National Exposure and Research Laboratory-CI as well as the Patent License Agreement between EMSL Analytical, Inc. and Applied Biosystems.

For further technical information regarding the development of the Environmental Relative Moldiness Index refer to the April 2006 issue of "The Synergist" pages 39-43 or www.epa.gov/iag

Books

Bioaerosols: Assessment and Control. Janet Macher, Ed., American Conference of Governmental Industrial Hygienists, Cincinnati, OH Exposure Guidelines for Residential Indoor Air Quality. Environmental Health Directorate, Health Protection Branch, Health Canada, Ottawa, Ontario, 1989.

Fungal Contamination in Public Buildings: Health Effects and Investigation Methods. Health Canada, Ottawa, Ontario, 2004.

IICRC: S500 Standard and Reference Guide for Professional Water Damage Restoration. 3rd Edition, Institute of Inspection, Cleaning, and Restoration Certification, Vancouver, WA, 2006

IICRC: S520 Standard and Reference Guide for Professional Mold Remediation. 1st Edition, Institute of Inspection, Cleaning, and Restoration Certification, Vancouver, WA, 2004

Field Guide for the Determination of Biological Contaminants in Environmental Samples. 2nd Edition, American Industrial Hygiene Association, 2005.

Lab Sample Number	Client Sample ID	Location	Sample Size
371212159-1	45	Master/Den	5 mg 371212159

Consumer Links

Read the full text of AIHA's "The Facts About Mold" consumer brochure.

<http://www.aiha.org/news-pubs/newsroom/Documents/Facts%20About%20Mold%20December%202011.pdf>

The Occupational Safety and Health Administration (OSHA)

<http://www.osha.gov/SLTC/molds/index.html>

CDC Mold Facts

<http://www.cdc.gov/mold/faqs.htm>

CDC Stachybotrys – Questions and answers on Stachybotrys chartarum and other molds

<http://www.cdc.gov/mold/stachy.htm>

IOM, NAS: Clearing the Air: Asthma and Indoor Air Exposures

<http://fermat.nap.edu/books/0309064961/html/index.html>

National Library of Medicine-Mold website

<http://www.nlm.nih.gov/medlineplus/molds.html>

California Department of Health Services (CADOHS)

<http://www.cal-iaq.org/mold/about-mold>

Minnesota Department of Health

<http://www.health.state.mn.us/divs/eh/indoorair/mold/index.html>

New York City Department of Health and Mental Hygiene

<http://www.nyc.gov/html/doh/html/epi/moldrpt1.shtml>

H.R.: The United States Toxic Mold Safety and Protection Act

http://conyers.house.gov/index.cfm?FuseAction=Issues.Home&Issue_id=061bf20d-19b9-b4b1-12a3-6089055e7c99

EPA

"Should You Have the Air Ducts in Your Home Cleaned?"

<http://www.epa.gov/iaq/pubs/airduct.html>

"Fact Sheet: Flood Cleanup - Avoiding Indoor Air Quality Problems."

<http://www.epa.gov/iaq/pubs/flood.html>

General information about molds and actions that can be taken to clean up or prevent a mold problem.

<http://www.epa.gov/mold/moldresources.html>

A Brief Guide to Mold, Moisture, and Your Home" Includes basic information on mold, cleanup guidelines, and moisture and mold prevention

<http://www.epa.gov/iaq/molds/moldguide.html>

"Mold Remediation in Schools and Commercial Buildings" – Information on remediation in schools and commercial property, references for potential mold and moisture remediators.

http://www.epa.gov/mold/mold_remediation.html

FEMA

"Homes That Were Flooded May Harbor Mold Problems" – Information and tips for cleaning mold.

<http://www.fema.gov/news/newsrelease.fema?id=6927>

"Mold Can Damage Home and Health" – How to check for mold, potential health effects of mold, and how to treat mold in the home.

<http://www.fema.gov/news/newsrelease.fema?id=6358>

"Prompt Flood Cleanup Can Help Prevent Health Problems" – How to clean up in-house mold problems (not large or serious exposures).

<http://www.fema.gov/news/newsrelease.fema?id=3652>

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371212159

Important Terms, Conditions, and Limitations**A. Sample Retention**

Samples analyzed by EMSL will be retained for 60 days after analysis date. Storage beyond this period is available for a fee with written request prior to the initial 30 day period. Samples containing hazardous/toxic substances which require special handling will be returned to the client immediately. EMSL reserves the right to charge a sample disposal fee or return samples to the client.

B. Change Orders and Cancellation

All changes in the scope of work or turnaround time requested by the client after sample acceptance must be made in writing and confirmed in writing by EMSL. If requested changes result in a change in cost the client must accept payment responsibility. In the event work is cancelled by a client, EMSL will complete work in progress and invoice for work completed to the point of cancellation notice. EMSL is not responsible for holding times that are exceeded due to such changes.

C. Warranty

EMSL warrants to its clients that all services provided hereunder shall be performed in accordance with established and recognized analytical testing procedures and with reasonable care in accordance with applicable federal, state and local laws. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied. EMSL disclaims any other warranties, express or implied, including a warranty of fitness for particular purpose and warranty of merchantability.

D. Limits of Liability

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. EMSL will not be held responsible for the improper selection of sampling devices even if we supply the device to the user. The user of the sampling device has the sole responsibility to select the proper sampler and sampling conditions to insure that a valid sample is taken for analysis. Any resampling performed will be at the sole discretion of EMSL, the cost of which shall be limited to the reasonable value of the original sample delivery group (SDG) samples. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder.

E. Indemnification

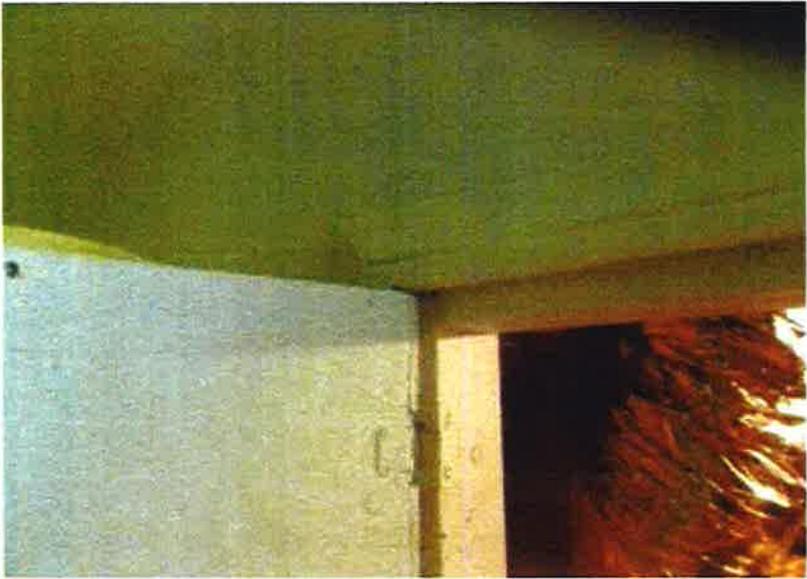
Client shall indemnify EMSL and its officers, directors and employees and hold each of them harmless for any liability, expense or cost, including reasonable attorney's fees, incurred by reason of any third party claim in connection with EMSL's services, the test result data or its use by client.

This report has been prepared by EMSL Analytical, Inc. at the request of and for the exclusive use of the client named in this report. Completely read the important terms, conditions, and limitations that apply to this report.

Please visit our website at <http://www.microbiologytestinglab.com/>

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B - 31



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B - 33

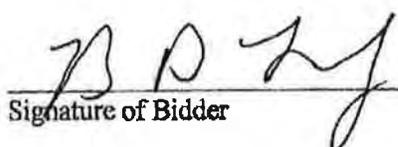


EXHIBIT "C"

SCHEDULE OF WORK ITEMS

San Joaquin Marsh Building Campus
45 Riparian View, IRWD Caretaker's Residence
Mold Remediation

Bid Item No.	Quantity	Description	Unit Price (\$, LS)	Total Amount (\$, LS)
1		HVAC System Improvements		
1.1	LS	Replace the filter with allergy rated disposable type.	50.00	50.00
1.2	LS	Clean air return grill.	30.00	30.00
2		Crawl Space Improvements		
2.1	LS	Convert the crawl space to a conditioned space using the CleanSpace crawl space encapsulation system . The work will generally include: covering the soil with a vapor barrier, but not cover the subsurface drains; dehumidifier; extraction fan.	14,300.00	14,300.00
2.2	LS	Mold remediation of the stained and mold growth areas of the wood structure using an abrasive process, i.e. dry ice.	12,800.00	12,800.00
2.3.	LS	Seal subfloor openings to interior with a spray-on urethane product.	5,300.00	5,300.00
3		Interior Remediation		
3.1	LS	Removal and replacement of kitchen under sink shelf under containment (if the underside was not fully visible or cleanable from the crawl space).	280.00	280.00
3.2	LS	Level 2*** mold remediation of wall cabinet systems and bathtub access.	600.00	600.00
3.3	LS	Three-step cleaning of all interior surfaces (including walls, but not ceilings) and personal items following Clean Trust standards: e.g. HEPA vacuum, Wet Wipe and HEPA vacuum.	22,455.00	22,455.00
3.4	LS	Seal opening at hall closet ceiling.	85.00	85.00
		Addition (+)		
		Deduction (-)		
		Total Amount of Bid	55,900.00	55,900.00


Signature of Bidder

10/29/12
Date

**CONTRACTOR'S CERTIFICATE
REGARDING WORKER'S COMPENSATION**

Description of Contract:

San Joaquin Marsh Building Campus
45 Riparian View, IRWD Caretaker's Residence
Mold Remediation

California Labor Code Section 3700 provides:

"Every employer, except the state shall secure the payment of compensation in one or more of the following ways:

- (a) By being insured against liability to pay compensation in one or more insurers duly authorized to write compensation insurance in this state.
- (b) By securing from the Director of Industrial Relations a certificate of consent to self-insure, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to his employees...."

I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of the Labor Code, and I will comply with such provisions before commencing the performance of any and all work required under the terms and conditions of this Contract.

Dated: 10/29/12, 2012 YEAROUT CONSTRUCTION
Contractor
By Dempsey Yearout

(SEAL)

(In accordance with Article 5 commencing at Section 1860, Chapter 1, Division 2, Part 7, of the California Labor Code, the above certificate must be signed and filed with the District (the awarding body) prior to performing any work under this contract.)

Agreement, Bonds, and Insurance

Revised 12/11

F:\CORTEZ\WRD\Engineering Operations Support\SJM Building Campus Mold\Bond Performance.docx

**Contractor's Certificate - 1 of 1
Regarding Worker's Compensation**

Forms- Payment,



SHUR-DRY EMERGENCY WATER REMOVAL

P.O. Box 15286
Santa Ana, CA 92735
714-434-6586 Office
714-434-6617 Fax

Client: Irvine Ranch Water District

Business: 3512 Michelson Dr
Irvine, CA 92612

Property: 45 Riparian View
Irvine, CA

Operator Info:

Operator: MINGO

Estimator: Jose Velez - CMR,AST,WRT,CCT,GC

Business: P.O. Box 15286
Santa Ana, CA 92735

Type of Estimate: Mold and Water Damage

Dates:

Date Entered: 10/26/2012

Date Est. Completed: 10/26/2012

Price List: CAOG4B_FEB11
Restoration/Service/Remodel

Estimate: IRVINERANCHDISTRICT

Remediation services listed below will include the removal of mold affected materials in accordance with *Guidelines on Assessment and Remediation of Fungi in Indoor Environments* by *The New York City Department of Health* and the IICRC Standards #520. The affected area is considered a Level II. **Dust barriers are necessary to prevent cross contamination of dust and spores.**

RECOMMEND THAT THE TENANT NOT BE PRESENT DURING ALL WORK.

SHUR-DRY RECOMMENDS AIR CLEARANCE ON ALL MOLD REMEDIATION.

This is a preliminary estimate only. It is based on a visual observation at the time of the inspection only. Additional items may be necessary to complete all repairs. Any changes will result in a change order that will increase cost.

The visible areas that are damaged classifies as a Level II, and falls under the following guidelines:

Set-up dust barriers only, to prevent dust from traveling in the unit during the drywall removal. Standard practice is to use six-mil plastic to set up a dust barrier, and HEPA vacuum entire damaged areas before any drywall removal.

Remove any drywall, insulation and baseboard with visible signs of mold. Waste will be bagged in 6-mil poly bags and disposed.

After drywall removal, clean all cavities (wood) and treat with an approved fungicide (IAQ 2000)

HEPA vacuum all areas one more time after removal.

If the procedure outlined above is approved, the job would require 14-21 working days.



SHUR-DRY EMERGENCY WATER REMOVAL

P.O. Box 15286
Santa Ana, CA 92735
714-434-6586 Office
714-434-6617 Fax

The following are our recommendation:

RECOMMEND THAT THE TENANT NOT BE PRESENT DURING ALL WORK.

This is a preliminary estimate only. It is based on a visual observation at the time of the inspection only. Additional items may be necessary to complete all repairs. Any changes will result in a change order that will increase cost.

Scope of Work

See Attached Report Supplied by Guaranteed Inspections

Please let me know if you have any questions or require additional information. Please call my office and confirm bid to set a date to start the work.

Jose Velez - Inspector
CMR,ASR,CCT,WRT,GC

Sign Below for Approval of Work

If you agree/approve with the scope of services as outlined in the section above, please sign below of this proposal to Shur-Dry as your acceptance and authorization to proceed with the work.

The above project/scope of work description/cost are acceptable. By my signature below, I am authorized to accept this proposal and authorize Shur-Dry to proceed with project.

Accepted By:

Printed Name

Signature

Title

Date



SHUR-DRY EMERGENCY WATER REMOVAL

P.O. Box 15286
Santa Ana, CA 92735
714-434-6586 Office
714-434-6617 Fax

Room: IRVINERANCHDISTRICT

DESCRIPTION	QNTY	UNIT COST	TOTAL
Misc. Equipment - Various items - Tape, trash bags, etc.	1.00 EA @	250.00 =	250.00
Haul debris - Dumpster on site	2.00 EA @	225.00 =	450.00
Taxes, insurance, permits & fees (Bid item) Estimated Only	1.00 EA @	985.00 =	985.00
Service - Construction of sink area, seal opening at hallway, bathtub access panel	1.00 EA @	1,395.00 =	1,395.00
Add for personal protective equipment	16.00 EA @	20.00 =	320.00
Add for HEPA filter (for canister/backpack vacuums)	2.00 EA @	44.45 =	88.90
Cleaning Remediation Technician - HEPA, Wipe down all interior surfaces and ready for testing	96.00 HR @	54.00 =	5,184.00
R&R Crawl Space Door	1.00 EA @	428.02 =	428.02
Electrical - Install new power for fan and dehumidifer	1.00 EA @	650.00 =	650.00
Dry ice blasting -	1,500.00 SF @	3.00 =	4,500.00
Dehumidifier Install of Crawl Space Unit	1.00 EA @	2,450.00 =	2,450.00
Neg. air fan/Air scrub.-Large (per 24 hr period)-No monit.	3.00 DA @	120.00 =	360.00
Moisture protection for crawl space - 20 Mil - Prep area as needed and install	1,500.00 SF @	5.00 =	7,500.00
Neg. air fan/Air scrub.-Large (per 24 hr period)-No monit.	3.00 DA @	120.00 =	360.00
Neg. air fan/Air scrub.-Large (per 24 hr period)-No monit.	3.00 DA @	120.00 =	360.00
Replace Air Filter with 3M Filtrate Filter	1.00 EA @	75.00 =	75.00
Service Level IV - Full Mold Remediation of kitchen Area - Full Containment	1.00 EA @	1,850.00 =	1,850.00
Painting Sink area and access area	1.00 EA @	295.00 =	295.00
Clean ductwork - Interior - Clean and Treat Unit	1.00 EA @	795.00 =	795.00
Contamination - air or surface testing & lab analysis - Third Party Clearance Two Areas - Kitchen and Living Space- Estimated Only	1.00 EA @	1,250.00 =	1,250.00

Adjustments for Base Service Charges	Adjustment
Carpenter - Mechanic	130.62
Cleaning Remediation Technician	108.00
Hazardous Materials Remediation Technician	153.48
General Laborer	40.83
Total Adjustments for Base Service Charges:	432.93
Line Item Totals: IRVINERANCHDISTRICT	29,978.85



SHUR-DRY EMERGENCY WATER REMOVAL

P.O. Box 15286
Santa Ana, CA 92735
714-434-6586 Office
714-434-6617 Fax

Grand Total Areas:

0.00 SF Walls	0.00 SF Ceiling	0.00 SF Walls and Ceiling
0.00 SF Floor	0.00 SY Flooring	0.00 LF Floor Perimeter
0.00 SF Long Wall	0.00 SF Short Wall	0.00 LF Ceil. Perimeter
0.00 Floor Area	0.00 Total Area	0.00 Interior Wall Area
0.00 Exterior Wall Area	0.00 Exterior Perimeter of Walls	
0.00 Surface Area	0.00 Number of Squares	0.00 Total Perimeter Length
0.00 Total Ridge Length	0.00 Total Hip Length	



SHUR-DRY EMERGENCY WATER REMOVAL

P.O. Box 15286
Santa Ana, CA 92735
714-434-6586 Office
714-434-6617 Fax

Summary for Mold and Water Damage

Line Item Total				29,545.92
Total Adjustments for Base Service Charges				432.93
Subtotal				29,978.85
Overhead	@	10.0% x	29,978.85	2,997.89
Profit	@	10.0% x	29,978.85	2,997.89
Replacement Cost Value				35,974.63
Net Claim				35,974.63

Jose Velez - CMR,AST,WRT,CCT,GC

IRVINE RANCH WATER DISTRICT EXHIBIT "D"

Expenditure Authorization

Project Name: SIM BUILDING CAMPUS MOLD REMEDIATION
 EPMS Project No: 11665 EA No: 1
 Oracle Project No: 4130
 Project Manager: CORTEZ, MALCOLM
 Project Engineer: CORTEZ, MALCOLM
 Request Date: November 7, 2012

ID Split: Miscellaneous

Improvement District (ID) Allocations

ID No.	Allocation %	Source of Funds
101	50.0	REPLACEMENT FUND**
112	1.8	BONDS YET TO BE SOLD**
113	2.2	BONDS YET TO BE SOLD**
115	3.1	CAPITAL FUND
121	6.4	BONDS YET TO BE SOLD**
130	5.0	BONDS YET TO BE SOLD**
135	8.1	CAPITAL FUND
140	1.7	BONDS YET TO BE SOLD**
150	13.1	BONDS YET TO BE SOLD**
153	1.4	BONDS YET TO BE SOLD**
154	.6	BONDS YET TO BE SOLD**
161	3.4	BONDS YET TO BE SOLD**
182	1.2	BONDS YET TO BE SOLD**
184	1.2	BONDS YET TO BE SOLD**
186	.4	BONDS YET TO BE SOLD**
188	.4	BONDS YET TO BE SOLD**
Total	100.0%	

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$369,600
Total EA Requests:	\$369,600
Previously Approved Budget:	\$0
Budget Adjustment Requested this EA:	\$369,600
Updated Budget:	\$369,600
Budget Remaining After This EA	\$0

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING - PLANNING OUTSIDE	0	0	0	0	0	0	1/10	10/10
ENGINEERING DESIGN - IRWD	5,000	0	5,000	5,000	0	5,000	11/12	6/13
ENGINEERING DESIGN - OUTSIDE	10,000	0	10,000	10,000	0	10,000	11/12	6/13
DESIGN STAFF FIELD SUPPORT	2,000	0	2,000	2,000	0	2,000	11/12	6/13
ENGINEERING - CA&I IRWD	5,000	0	5,000	5,000	0	5,000	11/12	6/13
ENGINEERING - CA&I OUTSIDE	10,000	0	10,000	10,000	0	10,000	11/12	6/13
CONSTRUCTION FIELD SUPPORT	2,000	0	2,000	2,000	0	2,000	11/12	6/13
CONSTRUCTION	300,000	0	300,000	300,000	0	300,000	11/12	6/13
LEGAL	2,000	0	2,000	2,000	0	2,000	11/12	6/13
Contingency - 10.00% Subtotal	\$33,600	\$0	\$33,600	\$33,600	\$0	\$33,600		
Subtotal (Direct Costs)	\$369,600	\$0	\$369,600	\$369,600	\$0	\$369,600		
Estimated G/A - 180.00% of direct labor*	\$25,200	\$0	\$25,200	\$25,200	\$0	\$25,200		
Total	\$394,800	\$0	\$394,800	\$394,800	\$0	\$394,800		
Direct Labor	\$14,000	\$0	\$14,000	\$14,000	\$0	\$14,000		

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

EA Originator: Malcolm Cortez 11/7/12
 Department Director: Kevin L. Burton 11/7/12
 Finance: _____
 Board/General Manager: _____

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$403,000. The above-captioned project is further described in the attached staff report and additional documents, if any, which are hereby incorporated by reference. This declaration of official intent to reimburse costs of the above-captioned project is made under Treasury Regulation Section 1.150-2.

AS

November 28, 2012
Prepared by: H. Cho/K. Lew/M. Cortez
Submitted by: K. Burton *(K.B.)*
Approved by: Paul Cook *(P. Cook)*

ACTION CALENDAR

SYPHON RESERVOIR INTERIM IMPROVEMENTS PROJECT EXPENDITURE AUTHORIZATION AND EQUIPMENT PRE-PURCHASE

SUMMARY:

The Syphon Reservoir Interim Improvements Project will construct a filtration system, chlorination system, and pipe modifications to connect Syphon Reservoir to the Zone A System. The long-lead items are the strainers and steel pipe and must be procured now to meet the June 30, 2012 construction completion date. Staff recommends that the Board:

- Approve an Expenditure Authorization for Project 30374 in the amount of \$345,400;
- Authorize the General Manager to execute a contract in the amount of \$143,610 with Hellan Strainers for the pre-purchase of two 14-inch strainers; and
- Authorize the General Manager to execute a contract in the amount of \$101,273.44 with West Coast Pipe for the pre-purchase of 36-inch steel pipe.

BACKGROUND:

IRWD purchased Syphon Reservoir from The Irvine Company in 2010 to provide additional recycled water storage. While the long term storage capacity of the reservoir is being determined, the Syphon Reservoir Interim Improvements Project will construct a filtration system, chlorination system, and pipe modifications to connect Syphon Reservoir to the Zone A System. In April 2012, URS Corporation was selected to provide design services for the Syphon Reservoir Interim Improvements Project. Hunsaker and Associates was retained to provide design services for the Syphon Pipelines through the Crean Property under the terms of an existing PA 9B Supplemental Reimbursement Agreement with ICDC. Both design consultants are on schedule to complete design by November 30, 2012. Construction is scheduled to begin in February 2013, and construction completion is scheduled for June 30, 2013.

Pre-Purchase of Strainers:

In 2006 staff evaluated several types of strainers and conducted a pilot test program to select the strainer that was best suited for raw water filtration at the District's reservoirs. Hellan Strainers was determined to provide the best performance with a low maintenance cost. In 2007 Hellan Strainers were installed at the Rattlesnake Reservoir Complex and have worked extremely well. Hellan Strainers are currently being installed for the Sand Canyon Reservoir as a part of the Michelson Water Recycling Plant Phase II Expansion Project.

The lead time to acquire strainers can take up to 16 weeks. Staff negotiated a cost from Hellan Strainers, as shown in Exhibit "A", to purchase two 14-inch strainers for the project. Purchasing the strainers now will allow the District to provide the strainers to the selected construction contractor in early March 2013 and will keep the project on schedule to complete construction by June 30, 2013.

Pre-Purchase of Steel Pipe:

The proposed pipelines through the Crean property consist of approximately 620 feet of 36-inch steel recycled water pipe, 550 feet of 4-inch domestic water pipe, and 570 feet of 48-inch reservoir drain pipe. The lead time to acquire the steel pipe can take up to 16 weeks. Staff obtained quotes from steel pipe manufacturers for the project. Purchasing the pipe now will allow the District to provide the steel pipe to the selected contractor in early March 2013 and will keep the project on schedule to start after Crean completes their rough grading in February 2013.

Staff received quotes from three steel pipe manufacturers: Imperial Pipe, Northwest Pipe Company, and West Coast Pipe. The quotes ranged from \$101,273.44 to \$193,192.20; West Coast Pipe submitted the lowest price at \$101,273.44, as shown in Exhibit "C". Staff recommends that the steel pipe be pre-purchased from West Coast Pipe in the amount of \$101,273.44. If Crean is delayed in completing the rough grading, then IRWD has the option for West Coast Pipe to store and maintain the pipe at their facility for up to nine months at a cost of \$1,140.00 per month.

FISCAL IMPACTS:

Project 30374 (3729) is included in the FY 2012-13 Capital Budget. Staff requests approval of an Expenditure Authorization as shown in the table below and in Exhibit "C".

Project No.	Current Budget	Addition <Reduction>	Total Budget	Existing EA	This EA Request	Total EA Request
30374 (3729)	\$1,399,800	\$ -0-	\$1,399,800	\$254,200	\$345,400	\$599,600

ENVIRONMENTAL COMPLIANCE:

This project is subject to the California Environmental Quality Act (CEQA). In conformance with the California Code of Regulations Title 14, Chapter 3, Section 15004, the appropriate environmental document (Mitigated Negative Declaration) is currently being prepared and will be adopted prior to construction award.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on November 14, 2012.

RECOMMENDATION:

THAT THE BOARD APPROVE AN EXPENDITURE AUTHORIZATION FOR PROJECT 30374 (3729) IN THE AMOUNT OF \$345,400; AUTHORIZE THE GENERAL MANAGER TO EXECUTE A CONTRACT WITH HELLAN STRAINERS IN THE AMOUNT OF \$143,610 FOR THE PRE-PURCHASE OF TWO 14-INCH STRAINERS; AND AUTHORIZE THE GENERAL MANAGER TO EXECUTE A CONTRACT WITH WEST COAST PIPE IN THE AMOUNT OF \$101,273.44 FOR THE PRE-PURCHASE OF 36-INCH STEEL PIPE FOR SYPHON RESERVOIR INTERIM IMPROVEMENTS, PROJECT 30374 (3729).

Action Calendar: Syphon Reservoir Interim Improvements Project Expenditure Authorization and
Equipment Pre-Purchase
November 28, 2012
Page 3

LIST OF EXHIBITS:

Exhibit "A" – Hellan Strainer Quotation
Exhibit "B" – West Coast Pipe Quotation
Exhibit "C" – Expenditure Authorization

EXHIBIT "A"



3249 East 80th Street, Cleveland, Ohio 44104

Phone: (216) 206-4200
Fax: (216) 206-4242

1-888-4-HELLAN

Web: www.hellanstrainer.com
E-mail: strainersales@hellanstrainer.com

URS Corporation
2020 E. First St., Suite 400
Santa Ana, CA 92705
Attn.: Bryan Paine

August 13, 2012

Subject: Budgetary Pricing for IRWD 14" Automatic Strainers

Quote No.: 081312BPRv1

IRWD 14" Automatic Strainers with Backwash

Qty	Hellan Strainer P/N	Description	Price Each	Total
2	1403WSA15A91002*	14" Automatic self-cleaning strainer with backwash design. Strainer assembly comes complete with carbon steel fabricated body, internally 3M Scotchkote, external epoxy coating (almond color), 150-lb ANSI Class B16.5 raised face flanges, single rotating .009" wedge wire screen, screen scraper brush, screen drive motor & gearbox (1/3 hp, TEFC motor, 460v/3ph), 2" automatic flush valve, pressure differential switch and backwash assembly	\$61,860.00	\$123,720.00
2	SSP-E1C-PXX*	Control Panel, NEMA-4X rating with vandal proof stainless steel enclosure. Panel comes complete with all necessary fuses, relays, motor starter, power transformer, power disconnect switch, PICO controller, external door operational indicating lights, terminal strip, selector switch for manual or automatic operation and backwash sequence programming	\$9,945.00	\$19,890.00
				\$143,610.00

***P/N subject to change**

THE HELLAN®
STRAINER COMPANY

Phone: (216) 206-4200
Fax: (216) 206-4242

1-888-4-HELLAN

3249 East 80th Street, Cleveland, Ohio 44104

Web: www.hellanstrainer.com
E-mail: strainersales@hellanstrainer.com

Due to large fluctuations in the cost of raw material this proposal is firm for acceptance within 30 days of the quotation date.

Pricing is based upon Hellan Strainer Co. standard terms & conditions.

FOB: Cleveland, Ohio
Freight: Pre-Paid & Add
Terms: Net 30 Days
Delivery: 14-16 Wks Upon release of approved submittal drawings

Thank you for your inquiry into Hellan Strainer products. For more information about Hellan Strainer Company and our products please visit our website at: www.hellanstrainer.com

Regards,

Patrick Barrett
Hellan Strainer Co.

THE HELLAN® STRAINER COMPANY
A SUBSIDIARY OF INDUSTRIAL MANUFACTURING COMPANY, LLC

3249 East 80th Street
Cleveland, OH 44104

These terms and conditions and those on the reverse hereof constitute the final agreement of any Buyer and Seller with respect to goods and services (the "Products") furnished by Seller and may not be modified or superseded except by written agreement signed by Seller, notwithstanding any other, additional or modifying terms and conditions appearing in Buyer's Purchase Orders or other forms or communications (all of which are objected by Seller to without further notification) and notwithstanding any shipments, tenders of delivery, acceptance of payments or other acts of Seller. Any performance to or for Buyer by Seller shall constitute or effect Buyer's acceptance of these terms and conditions.

1. **Quotations.** The Hellan® Strainer Company (Seller) may make quotations orally or in writing. Oral quotations which are not confirmed in writing by Seller expire automatically within 24 hours unless Seller prior receives Buyer's effective and responsive purchase order. Each written quotation, including a written confirmation of an oral quotation, expires automatically within 30 days after the date appearing on the quotation unless Seller prior receives Buyer's effective and responsive purchase order. Any quotation is subject to change by Seller at any time upon oral or written notice to Buyer unless Seller has received Buyer's purchase order before a quotation's expiration date.
2. **Acceptance of Buyer's Orders.** Notwithstanding any contrary language of Buyer's order, Buyer's order shall be subject to acceptance by an authorized employee of Seller at Seller's facilities (the "Plant"), whose acceptance is expressly made conditional on Buyer's assent to these Terms and Conditions and the terms and conditions on the reverse hereof and on Buyer's agreement that such terms and conditions collectively constitute the sole terms and conditions with respect to Buyer's order. Seller reserves the right at any time to correct clerical, stenographic or other errors in quotations, purchase orders or acknowledgements. Prices accepted by Seller includes Buyer accepting, where applicable, over-runs or under-runs not exceeding Ten percent of the quantity ordered to be paid for or credited to Buyer's account.
3. **Price Changes.** Seller's prices remain firm with respect to all orders that are released by Buyer and scheduled for shipment by Seller within six months after the date of Buyer's purchase order. All orders, or portions thereof, either released by Buyer or scheduled for shipment after this six-month period will be priced at the higher of (a) the original contract price or (b) prices in effect at the time of shipment.
4. **Taxes.** Any and all sales, use or other transfer taxes assessed upon any sale or Product sold or leased which Seller is obligated to prepay, pay or collect will be added (when known) to the purchase price of the Products. In any event, Buyer will pay or reimburse Seller for the same on demand.
5. **Payment Terms:** If Buyer is located within the continental United States, payment terms are net 30 days, subject to credit approval by Seller. If Buyer is located outside the continental United States, special payment or credit terms may be available or required upon consultation with an authorized employee of Seller's at Plant. Time and terms of payment are of the essence, and if any default therein is made by Buyer, or if the financial responsibility of Buyer at any time becomes impaired or unsatisfactory to Seller, or if Buyer commits an act that could make Buyer the subject of a proceeding under applicable law for relief of debtors, Seller shall have the right, without liability on Seller's part and without prejudice to any other legal rights or claims Seller may have, to terminate without notice or to defer or discontinue further shipments until past due payments are made or satisfactory assurance of Buyer's financial responsibility is received by Seller. Interest on all past due accounts will be charged at the rate of One and One-Half percent per month (18% per annum), or at such lower rate as is the maximum permitted under the applicable law, until the delinquency is cured. Seller may, at Seller's discretion, demand cash upon delivery.
6. **Developmental Costs and Special Tooling.** Buyer shall pay the developmental costs or the cost of any specially designed or specialized tools, dies, patterns, jigs, fixtures, etc. ("Special Items") used, manufactured or purchased by Seller to complete Buyer's order(s). Such payment shall be made in advance of Seller's completion of the order(s), within ten days of Seller invoicing Buyer for such costs. Special Items shall be the sole property of Seller, and Buyer's payment therefore shall not convey any title or right thereto nor entitle Buyer to remove same from Seller's possession. Specific goods appearing in Seller's catalog may require Special Items.
7. **Shipment Terms.** All shipments will be F.O.B. Shipping Point or Manufacturing Plant as designated by Seller. Seller is entitled, but not obligated to prepay freight, in which event freight shall be added to and be part of the purchase price of the Products. Seller shall also be entitled to impose additional charges for the completion, at Buyer's request, of forms or other special items, with respect to shipping. Unless Buyer timely directs, in writing, the method of shipment, Seller will determine the method of shipment.
8. **Packaging.** At no additional charge, all products shall be packaged for domestic shipment in accordance with Seller's HS-674 (7/07)

standard specifications. Additional charges may be imposed for special domestic packaging, overseas packaging, or special marking performed at Buyer's request.

9. **Delivery, Title and Risk of Loss.** Acceptance of shipment by a common carrier, or designated shipper, or licensed public truckman, allocation of Products to Buyer at premises other than Seller's delivery to Buyer's representative or designee (if Seller's trucks and drivers effect such delivery), or mailing of an invoice by Seller to Buyer, whichever of the foregoing first occurs, shall constitute tender of delivery. Upon tender of delivery, title shall pass to Buyer, subject to Seller's right of stoppage in transit and to any interest of Seller reserved to secure Buyer's payment or performance. In the instance of Products held subject to Buyer's instructions, Products for which Buyer has failed to supply shipping instructions, or in any case where Seller, in its sole discretion, determines any part of the Products should be held for Buyer's account, Seller may invoice the Products and Buyer agrees to make payment at the maturity of the invoice so rendered. Products invoiced and held at any location, for whatever reason, shall be at Buyer's risk and Seller may charge for (but is not obligated to carry) insurance and storage at its prevailing rates. Partial deliveries shall be accepted by Buyer and paid for at contract prices and terms. When Buyer has declared or manifested an intention not to accept delivery in accordance with any order, no tender shall be necessary but Seller may, at its option, give notice in writing to Buyer that Seller is ready and willing to deliver and such notice shall constitute a valid tender of delivery. Seller assumes no responsibility for placing a value upon any shipment.
10. **Delays or Default in Delivery.** Seller shall have no liability whatsoever for Seller's delay or default in delivery due to strikes and other labor difficulties, riots, wars, accidents, fires, floods, explosions, vandalism, government embargoes, priorities or regulations, transportation delays, shortages (of normal sources) of labor, fuel, materials, supplies, power or transportation facilities or other similar or dissimilar causes beyond Seller's control. Under no circumstances shall Seller have any liability for penalties or other consequential or incidental damages of any kind resulting in whole or in part from Seller's delay or default in delivering any Product to Buyer as agreed. If during the occurrence of any of the foregoing contingencies, Seller holds any of the Products, Seller may invoice and hold the same for the account of Buyer and Buyer agrees to make payment at the maturity of the invoice so rendered. Claims for shortages or non-conformity of the Products delivered must be presented by Buyer to Seller within ten days of the date of delivery. In such case, the weight(s) of the delivery Product(s) must be provided along with a description of the method used to arrive at such weight(s) and the number of parts or Product(s).
11. **Cancellation.** After Seller accepts Buyer's purchase order by mailing Seller's written acknowledgement, Buyer shall not be entitled to cancel or terminate all or any portion of the purchase contract except upon Buyer's payment of cancellation charges equal to (a) all costs and commitments that Seller has then made or incurred plus (b) Seller's usual profit thereon. Such cancellation charges shall be paid to Seller in cash within ten days after written demand by Seller.
12. **Patent Infringement.**
 - (A) With respect to all Products manufactured to Buyer's specifications, Buyer shall indemnify and hold Seller harmless from and against any and all losses, costs, expenses (including, without limitation, court costs, litigation expenses, and attorney's fees), claims, demands, suits and judgments resulting from actual or alleged patent infringement.
 - (B) With respect to all other Products sold by Seller, Seller shall defend any suit or proceeding brought against Buyer on a claim that such a Product, or any part thereof, when employed in the manner intended by Seller infringes any U.S. patent and, if Buyer notifies Seller promptly in writing and gives all control and all necessary information, assistance and authority to defend same, Seller shall pay all damages and costs awarded against Buyer as a result thereof. If a court finds (finally) such an infringement and the use of any Product, or part thereof, in the manner intended by Seller, is enjoined, Seller will, at its expense, at its option: (a) procure for Buyer the right to continue using the Product or part, (b) replace the Product or part with a non-infringing Product or part, (c) modify the Product or part so that it becomes non-infringing, or (d) remove the Product or part and refund Buyer's purchase price and transportation costs. Seller shall have no further liability to Buyer for actual or alleged patent infringement.
13. **Statutory, Specification Compliance.** Seller certifies that the items of Products manufactured by it were produced in compliance with all applicable requirements of the Fair Labor Standards Act of 1938, as amended, and the Regulations and Orders of the Administrator of the Wage and Hour Division issued under Section 14 thereof. Seller continues to attempt to comply with all applicable Ohio and federal laws or the local laws of the state(s) of manufacture. However, Seller is not responsible for compliance with any laws or regulations applicable to the Products or their use (including without limitation OSHA and similar state laws and regulations), or with

Standard Terms and Conditions of Sale

any product standard or specifications, whether of general or particular application, unless Buyer has furnished, and Seller has acknowledged in writing, specific written notice thereof prior to Seller's entry of Buyer's order. Price and delivery shall be subject to adjustments to compensate for compliance by Seller with such laws, order, regulations, requirements, standards or specifications.

14. **Product Warranty Limitation.** Seller warrants (a) that the Products will conform (subject to industry variations) to the descriptions, provided by Seller, on the face hereof and to the written specifications, if any, furnished by Buyer and accepted by Seller, (b) that Seller will convey good title to the Products free from any lawful security interest or other lien or encumbrance unknown to Buyer and arising through Seller and (c) that the Products will remain free of defects in material and workmanship for one year from the date of tender of delivery, provided that the Products are properly stored, handled and cared for, installed in accordance with sound engineering practice, properly operated under normal conditions, with competent supervision, maintained in compliance with Seller's maintenance recommendations (if applicable) and not subjected to alteration, accident, damage, wear and tear beyond tolerances, abuse, misuse or misapplication. Seller's obligations under this Warranty shall be conditioned upon Buyer's notifying Seller of any alleged defect(s) promptly after discovery and upon Seller's satisfying itself upon inspection that its Warranty has been breached. At Seller's request, Buyer shall make each allegedly defective Product available for Seller's inspection or shall, if so directed by Seller, return each such Product to the Plant. In the event of any breach of warranty hereunder Seller shall repair or replace the defective Product at Seller's expense other than freight both ways which must be prepaid by Buyer, except that in lieu of repairing or replacing as aforesaid Seller may elect to discharge its obligation to Buyer by crediting Buyer's account in a reasonable amount on account of the defect but in no event in an amount greater than the paid purchase price of the defective Product. THE OBLIGATIONS SET FORTH IN THE PRECEDING SENTENCE ARE SELLER'S SOLE OBLIGATIONS AND BUYER'S EXCLUSIVE REMEDY; SELLER MAKES NO OTHER WARRANTY, IMPLIED OR EXPRESS, AND NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. ANY BUYER OR USER'S SOLE REMEDY IN EVENT OF BREACH OF THE WARRANTIES WHICH ARE MADE BY SELLER IS REPLACEMENT OF THE GOODS F.O.B. SELLER'S PLACE OF BUSINESS OR CREDIT AS SET FORTH HEREIN; WITH THIS SOLE EXCEPTION, SELLER SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, AND ANY BUYER OR USER HEREBY WAIVES FOR ITSELF AND ITS SUCCESSORS AND ASSIGNS (A) ANY AND ALL CLAIMS FOR PUNITIVE DAMAGES AND (B) ALL CLAIMS OF NEGLIGENCE OR STRICT LIABILITY OR BOTH. IN NO EVENT WILL SELLER'S LIABILITY EXCEED THE PURCHASE PRICE OF THE GOODS WHICH IS ACTUALLY PAID TO SELLER. Buyer (a) recognizes that the provisions of this Warranty and Limitation are a material factor in Seller's sale of the Products at the price specified, and (b) agrees that any accommodation to Buyer by Seller, whether for sales policy reasons or otherwise, shall not be taken to establish any liability of Seller or any contract term inconsistent herewith. Seller's warranties are given only to purchasers who buy for resale or for industrial or commercial use.
15. **Product Defect Notification.** Buyer shall notify Seller within a reasonable period of time not to exceed 30 days, of any claim (made known to Seller) of any person that any Product was defective or caused injury to person or property. In the event that recovery is sought from Seller, Buyer shall indemnify and hold Seller harmless from any claim, judgment or settlement for any injuries resulting from the Product(s) being improperly stored, handled and cared for, installed not in accordance with sound engineering practices and safety practices, improperly operated, operated without competent supervision, maintained not in compliance with Seller's recommendations (if applicable), altered, damaged, abused, misused, misapplied, or used when tolerances are no longer maintained.
16. **Returns.** No products shall be returned to Seller, whether for inspection, repair, replacement or any other reason, without prior written consent from an authorized individual at Seller's Plant, district office or representative.
17. **Modification; Waiver.** This order may not be modified except by an instrument in writing signed by authorized employees of Buyer and Seller expressly referring hereto. No waiver by Seller of any breach of any provision hereof will constitute a waiver of any other breach of such or any other provision.
18. **Applicable Law.** The local laws of the State of Ohio shall apply to define and interpret the rights and obligations of Buyer and Seller. Buyer and Seller consent to the jurisdiction of the courts of the State of Ohio and to venue in Cuyahoga County.

EXHIBIT "B"

WEST COAST PIPE, INC.
 2180 N. Locust Avenue
 Cement Linings, Coatings and Fabrication
 Rialto, CA 92377
 (909) 356-5670 Fax (909) 356-4229

Quotation

Date: Tuesday, October 30, 2012

Project: **36" CML&CSP ILP Syphon Lateral Extension**
Project 30385 (3946)
 Irvine Ranch Water District

West Coast Pipe Linings, Inc. is pleased to provide this quotation for your review and consideration. This project is quoted as a complete engineered pipeline. Should you have any questions or comments, please do not hesitate to contact me at your earliest convenience.

QUALIFICATION STATEMENT

- All Pipe shall conform to AWWA C200
- Cement Mortar Linings and Cement Mortar Coating shall conform to AWWA C205/95
- Fabrication conforms to AWWA C208 and AWS D1.1. Welding inspection shall be per the Die Penetrant method with no further testing required
- Flanges shall conform to AWWA C207/95
- Fabricated fittings shall be manufactured from previously hydro-tested pipe.

Pricing Table (See Special Terms & Conditions)					
Item No.	Description	Qty.	Unit	Unit Price	Total
-	36" CML & CSP Approx. 622 linear feet of 37.875" pipe x 0.25" pipe will be included from Station 58+59 to Station 64+81 as shown on drawing R1. @ Station 58+89 connection to existing pipe will include cut-to-fit spool and 36" buttstrap. @ Sta. 58+60.42 a 12" Bottom Drain Blow Off Assy per IRWD W-14 will be included. @ Sta. 64+81 a 36" bulk head with a 12" and 4" flanged outlet will be included, 12" flanged spool and 12" blind flange also.	1	LS	\$93,125.00	\$93,125.00
	Total				\$93,125.00
	**Storage @ \$1,140.00 per calendar month	TBD			

8.75% SALES TAX \$8,148.44
TOTAL \$101,273.44

Special Terms and Conditions

1. Due to the current unpredictability of the steel market prices are held firm for 60 Calendar days after date of bid as long as a Letter of Intent is issued within 30 Calendar days after date of bid subject to availability.

Standard terms and conditions

1. Prices quoted are delivered to job site based on full truckload quantities with job site being accessible for conventional trucks to operate under their own power. Customer is to off load. (1) hour is allowed per truck unloading each trailer. Additional standby time will be subject to charge.
2. Prices are subject to applicable sales tax.
3. Terms are 2% in 10 with net 30 days from date of invoice.
4. Allow approximately 2 weeks for engineered submittal drawings and 8 - 10 weeks for delivery of materials after notice to proceed. Note: Invoicing may begin at completion of materials ready for shipment.
- **5. Delay in shipment may be subject to storage fees, see quote above.
6. *Exception is taken to all valves, meters, hydrant heads, piping other than steel below 4", expansion joints, sleeve couplings, ductile iron, pvc, and nut, bolt, and gasket kits.*
7. All materials are in strict accordance with the project plans.
8. Prices are held firm for 60 Calendar days after date of bid as long as a Letter of Intent is issued within 30 Calendar days after the bid subject to availability. Any changes in the scope of the project are subject to a re-quote.
9. Delivery dates will be confirmed at time of order release and will remain firm. However, any mechanical failure, inclement weather or conditions beyond the control of WCPL may effect the actual delivery date holding WCPL harmless of any Liquidated Damages

TERMS: NET 30 DAYS, NO RETENTION

DELIVERY: 10 - 12 WEEKS AFTER RECEIVING APPROVED SHOP DRAWINGS

Completion is based upon receipt of purchase order and is subject to WCPL workload, and inclement

F.O.B. Job Site

Accepted in accordance with terms and conditions herein expressed.

Subject to award of contract to the undersigned.

Should you have any questions regarding this quotation, please do not hesitate to contact me at this office.

Thank you,

Carolyn Vik
Extension 233

IRVINE RANCH WATER DIS EXHIBIT "C"

Expenditure Authorization

Project Name: SYPHON RESERVOIR INTERIM IMPROVEMENTS
 EPMS Project No: 30374 EA No: 3
 Oracle Project No: 3729
 Project Manager: CORTEZ, MALCOLM
 Project Engineer: CHO, HARRY
 Request Date: November 7, 2012

ID Split: Regional Reclaimed Water Split with LAWD (11/08)
Improvement District (ID) Allocations

ID No.	Allocation %	Source of Funds
211	2.1	CAPITAL FUND
212	13.2	BONDS YET TO BE SOLD**
213	4.8	BONDS YET TO BE SOLD**
215	.7	CAPITAL FUND
221	13.2	BONDS YET TO BE SOLD**
230	9.6	BONDS YET TO BE SOLD**
235	7.9	PREVIOUSLY SOLD BONDS
240	7.7	BONDS YET TO BE SOLD**
250	31.7	BONDS YET TO BE SOLD**
261	9.1	BONDS YET TO BE SOLD**
Total	100.0%	

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$254,200
This Request:	\$345,400
Total EA Requests:	\$599,600
Previously Approved Budget:	\$1,399,800
Budget Adjustment Requested this EA:	\$0
Updated Budget:	\$1,399,800
Budget Remaining After This EA	\$800,200

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	0	50,000	50,000	0	50,000	50,000	5/12	11/12
ENGINEERING DESIGN - OUTSIDE	54,000	171,000	225,000	54,000	171,000	225,000	5/12	11/12
DESIGN STAFF FIELD SUPPORT	5,000	5,000	10,000	5,000	5,000	10,000	5/12	11/12
ENGINEERING - CA&I IRWD	0	0	0	0	50,000	50,000	12/12	6/13
ENGINEERING - CA&I OUTSIDE	0	0	0	0	36,000	36,000	12/12	6/13
CONSTRUCTION FIELD SUPPORT	0	0	0	0	5,000	5,000	12/12	6/13
CONSTRUCTION	270,000	0	270,000	(85,000)	1,000,000	915,000	12/12	6/13
LEGAL	0	2,000	2,000	0	2,000	2,000	5/12	6/13
ENGINEERING ENVIRONMENTAL-OUTS	0	14,000	14,000	26,000	14,000	40,000	5/12	12/12
Contingency - 5.00% Subtotal	\$16,400	\$12,200	\$28,600	\$0	\$66,800	\$66,800		
Subtotal (Direct Costs)	\$345,400	\$254,200	\$599,600	\$0	\$1,399,800	\$1,399,800		
Estimated G/A - 180.00% of direct labor*	\$9,000	\$99,000	\$108,000	\$9,000	\$198,000	\$207,000		
Total	\$354,400	\$353,200	\$707,600	\$9,000	\$1,597,800	\$1,606,800		
Direct Labor	\$5,000	\$55,000	\$60,000	\$5,000	\$110,000	\$115,000		

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

EA Originator: _____ 11/7/12

Department Director: _____ 11/7/12

Finance: _____

Board/General Manager: _____

** IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$1,639,000. The above-captioned project is further described in the attached staff report and additional documents, if any, which are hereby incorporated by reference. This declaration of official intent to reimburse costs of the above-captioned project is made under Treasury Regulation Section 1.150-2.