AGENDA

IRVINE RANCH WATER DISTRICT BOARD OF DIRECTORS REGULAR MEETING

March 26, 2018

PLEDGE OF ALLEGIANCE

CALL TO ORDER

5:00 p.m., Board Room, District Office

15600 Sand Canyon Avenue, Irvine, California

ROLL CALL

Directors LaMar, Matheis, Swan, Withers and President Reinhart

NOTICE

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

COMMUNICATIONS TO THE BOARD

- 1. A. Written:
 - B. Oral:
- 2. ITEMS RECEIVED TOO LATE TO BE AGENDIZED

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

PRESENTATION

Next. Resolution 2018-8

3. RESOLUTION TO COMMEND DANA WEHR FOR HIS 24 YEARS OF SERVICE TO THE DISTRICT

Reso. 2018-8

Recommendation: Adopt a resolution commending Dana Wehr for his dedicated and outstanding service to the District.

WORKSHOP

4. WATER SHORTAGE CONTINGENCY PLAN UPDATE

Recommendation: That the Board provide input to the revisions that are begin made to IRWD's Water Supply Contingency Plan.

CONSENT CALENDAR

Items 5-11

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

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

6. MINUTES OF BOARD MEETINGS

Recommendation: That the minutes of the March 12, 2018 Special Meeting and March 12, 2018 Regular Board Meeting be approved as presented.

7. <u>UC IRVINE COOLING TOWER RECYCLED WATER CONSERVATION PIPELINE PHASE II BUDGET INCREASE AND CONTRACT CHANGE ORDER</u>

Recommendation: That the Board authorize a budget increase in the amount of \$357,000, from \$1,102,500 to \$1,459,500, for Project 07101, and in the amount of \$110,000, from \$738,100 to \$848,100, for Project 07102; and authorize the General Manager to execute Contract Change Order No. 2 with Sully-Miller Contracting Company in the Amount of \$237,088.70 for the UC Irvine Cooling Tower Recycled Water Conversion Pipeline Phase Ii, Projects 07101 And 07102.

8. FEBRUARY 2018 TREASURY REPORTS

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report, the Monthly Interest Rate SWAP Summary for February 2018, and Disclosure Report of Reimbursements to Board members and staff; approve the February 2017 Summary of Payroll ACH payments in the total amount of \$1,816,518 and approve the February 2018 Accounts Payable Disbursement Summary Of Warrants 3888884168 through 385061, Workers' Compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$20,760,983.

9. 3.7 MG ZONE I RESERVOIR PROJECT FINAL INITIAL STUDY/ MITIGATED NEGATIVE DECLARATION

Recommendation: That the Board find on the basis of the whole record before it (including the Initial Study/Mitigated Negative Declaration and the comments received), that there is no substantial evidence that the 3.7 MG Zone 1 Reservoir will have a significant effect on the environment and that the Mitigated Negative Declaration reflects IRWD's independent judgment and analysis; adopt the proposed Mitigated Negative Declaration for the 3.7 MG Zone 1 Reservoir and the associated Mitigation Monitoring and Reporting Program; approve the project; authorize staff to post and file a Notice of Determination; and submit payment for the California Department of Fish and Wildlife Service filing fee.

CONSENT CALENDAR - Continued

Items 4-11

10. ADDENDUM NO. 4 TO THE MICHELSON WATER RECYCLING PLANT PHASE 2 AND 3 CAPACITY EXPANSION FINAL ENVIRONMENTAL IMPACT REPORT

Recommendation: That the Board approve the proposed Addendum No. 4 to the Michelson Water Recycling Plant Phase 2 and 3 Capacity Expansion Project's Final Environmental Impact Report, including the determinations set forth in Addendum no. 4, and authorize staff to post and file a Notice of Determination.

11. <u>2018 REGULAR LAFCO SPECIAL DISTRICTS REGULAR AND ALTERNATE SEAT ELECTION</u>

Recommendation: That the Board authorize the District Secretary to submit the "Declaration of Qualification to Vote" form designating President Doug Reinhart as IRWD's authorized voting member and Vice President Steve Lamar as IRWD's alternate voting member for the Orange County Special District Selection Committee election; and authorize the District's voting member, or his alternate, to cast the District's ballot before the May 25, 2018, deadline.

ACTION CALENDAR

12. <u>MICHELSON WATER RECYCLING PLANT BIOSOLIDS AND ENERGY</u> RECOVERY FACILITIES CONTRACT CHANGE ORDER NO. 76

Recommendation: That the Board approve Contract Change Order No. 76 in the amount of \$150,690.04 with Filanc/Balfour Beatty for electrical, instrumentation, controls, and structural modifications for the Michelson Water Recycling Plant Biosolids and Energy Recovery Facilities, Project 04286.

13. TECHNOLOGY DRIVE AND LAGUNA CANYON ROAD CAPITAL RECYCLED WATER FACILITIES BUDGET INCREASE AND CONTRACT CHANGE ORDER

Recommendation: That the Board authorize a budget increase in the amount of \$1,736,500, from \$3,223,500 to \$4,960,000, and approve Contract Change Order No. 9 in the amount of \$1,131,065.61 for the Technology Drive and Laguna Canyon Road Recycled Water Facilities, Project 01015.

14. <u>TERMS FOR LONG-TERM EXCHANGE PROGRAM WITH</u> ANTELOPE VALLEY-EAST KERN WATER AGENCY

Recommendation: That the Board approve the proposed terms for a Long-Term Exchange Program between Antelope Valley-East Kern Water Agency and Irvine Ranch Water District and authorize the General Manager to execute an agreement based on the terms, subject to any substantive changes being approved by IRWD's Supply Reliability Programs Committee.

ACTION CALENDAR (CONTINUED)

15. ENTERPRISE ASSET MANAGEMENT IMPLEMENTATION SERVICES

Recommendation: That the Board authorize the General Manager to execute a Professional Services Variance with Total Resource Management for a not-to-exceed cost of \$216,876.80.

16. FISCAL YEAR 2017-18 AND FISCAL YEAR 2018-19 GENERAL COUNSEL AND OTHER LEGAL SERVICES CONTRACTS

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with Lewis Brisbois Bisgaard & Smith LLP for general counsel legal services focused on municipal law, transactional and non-complex issues, and rate-setting with a term of March 23, 2018, to September 30, 2018, and a not-to-exceed value of \$375,000 without additional authorization from the District; authorize the General Manager to execute a variance to the letter of engagement with Alston & Bird for legal services related to complex issues and litigation with a term of April 1, 2018, to June 30, 2019, and a not-to-exceed value of \$1,500,000; and authorize the General Manager to execute a variance to the Professional Services Agreement with Kronick Moskovitz Tiedemann & Girard for legal services related to water resources and policy matters and issues with a term of April 1, 2018, to June 30, 2019, and a not-to-exceed value of \$250,000.

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

- 17. A. General Manager's Report
 - B. Directors' Comments
 - C. Closed Session

CONFERENCE WITH LEGAL COUNSEL—ANTICIPATED LITIGATION- Significant exposure to litigation pursuant to Government Code Section 54956.9(d)(2). (One potential case.).

- 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.

March 26, 2018 Prepared and

Submitted by: J. Zepeda

Approved by: Paul A. Cook

PRESENTATION

COMMENDING DANA WEHR FOR HIS SERVICE TO THE DISTRICT

SUMMARY:

As Mr. Dana Wehr is retiring from the District following 24 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. 2018-

RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT COMMENDING
DANA WEHR FOR HIS DEDICATED AND
OUTSTANDING SERVICE TO THE DISTRICT

LIST OF EXHIBITS:

Exhibit "A" - Resolution

RESOLUTION NO. 2018-

RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE RANCH WATER DISTRICT COMMENDING DANA WEHR FOR HIS DEDICATED AND OUTSTANDING SERVICE TO THE DISTRICT

WHEREAS, Dana Wehr began his career at the Irvine Ranch Water District on February 1, 1994 as an Operator where he performed work related to the collection and treatment of sewage and production of recycled water at the Los Alisos Water Recycling Plant; and

WHEREAS, Dana was promoted to Operations Supervisor in 2004 and Chief Plant Operator in 2011; and

WHEREAS, Dana has provided the District with over 24 years of outstanding service in sewage treatment and water recycling; and

WHEREAS, Dana earned a California State Water Resources Control Board Grade IV Wastewater Treatment Plant Operator certification; and

WHEREAS for the past seven years as the Los Alisos Water Recycling Plant Chief Plant Operator, Dana managed all aspects of plant operations. As part of his job duties and responsibilities, Dana effectively managed an annual budget of \$2 million and managed six staff members; and

WHEREAS, over the past 24 years Dana has been involved in implementation of several plant upgrade projects that provided greater operational efficiency and cost effectiveness. These projects included the addition of a new disinfection facility, pumping station, and various pipelines. Dana provided valuable input and assistance during the design, construction, and start up phases of these critical projects. His leadership and dedication has helped IRWD achieve reliable and regulatory compliant operation of the Los Alisos Water Recycling Plant throughout his career.

WHEREAS, Dana is known for his extensive technical and leadership skills and has mentored many employees throughout his years with thoughtfulness and compassion; and

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

SIGNED and APPROVED this 26th day of March 2018.

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

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

March 26, 2018

Prepared by: F. Sanchez Submitted by: P. Weghorst

Approved by: Paul A. Cook

WORKSHOP

WATER SHORTAGE CONTINGENCY PLAN UPDATE

SUMMARY:

The last significant revision to the IRWD Water Shortage Contingency Plan (WSCP) occurred in 2009. Staff is in the process of revising the WSCP to address changes in IRWD's projected water supplies and anticipated changes in legislative requirements. At the workshop, staff will provide an overview of the revisions that are being made to the WSCP. Staff recommends that the Board provide input to the revisions that are being made to the WSCP.

BACKGROUND:

The Irvine Ranch Water District WSCP allows the District to strategically reduce water use through actions that are staged dependent upon the severity of water shortages. The plan was significantly revised in 2009, and slightly modified in 2014 during the statewide drought in response to State mandated reductions. In 2016, Woodard Curran (formerly RMC) was hired to update the WSCP to make it consistent with new requirements for IRWD's 2015 Urban Water Management Plan (UWMP). The 2015 UWMP and updated WSCP were adopted by the IRWD Board of Directors and submitted to the Department of Water Resources in 2016.

Current Revisions to WSCP:

IRWD's WSCP is currently being revised by staff with the assistance of Woodard Curran. The revisions will address the following:

- Changes to IRWD projected water supplies based on the 2016 Water Supply Reliability Evaluation; and
- Anticipated long-term water efficiency legislation that would substantially modify requirements for water shortage contingency planning.

The updated WSCP will define the level of impact for various levels of shortage conditions. It will include specific correlations to levels of shortages associated with Water Supply Allocations that could be implemented by Metropolitan Water District of Southern California during a regional shortage. The updated WSCP will define a list of voluntary measures, non-rate response measures and potential rate response measures for each level of shortage. Following is an overview of each of the revisions being made to the WCSP. A draft of the WSCP, as revised to date, is provided as Exhibit "A". At the workshop, staff will provide an overview of the revisions that are being made to the WSCP.

Projected Water Supplies:

The WSCP is being updated to reflect changes in IRWD's projected water supplies based on the results of the IRWD 2016 Water Supply Reliability Evaluation. This evaluation quantified the

Workshop: Water Shortage Contingency Plan Update

March 26, 2018

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benefits of IRWD's use of supplies from the Strand Ranch and Stockdale Integrated Banking Projects that will be available for use by IRWD during water shortage events. These water supply benefits will be reflected in revisions being made to the WSCP.

Long-Term Water Efficiency Legislation:

In May 2016, Governor Brown signed Executive Order B-37-16, directing State Agencies to establish a framework for long-term water efficiency and drought planning to build on the conservation achieved during the historic drought of 2014-16 and implementation of the Governor's Water Action Plan. In January 2017, the State Agencies released a framework that resulted in the introduction of several pieces of legislation. It is expected that the State will pass long-term water efficiency legislation in 2018 that is likely to include the following provisions for water shortage contingency planning:

- Requirements and procedures for annual water supply and demand assessments;
- Six standardized shortage stages;
- Anticipated response measures and communication protocols for each shortage stage;
- Requirements for a drought risk assessment and comparison of the total water supply sources available to the total projected water use during a drought period; and
- An assessment of the potential financial impacts associated with a shortage response.

These water shortage contingency planning provisions are being incorporated into the updated WSCP.

Rate Structure Adjustments:

The IRWD Water Budget Based Rate Structure is the primary mechanism for providing revenue stability during periods of reduced demands that occur during periods of water supply shortage. It is also the primary mechanism for reporting and enforcing water conservation within the service area during a shortage. Adjustments to customer water budgets are a key response measure in the WSCP. Reductions to water budgets equitably reduce demands in a shortage period by targeting wasteful use through stronger price signals.

Staff has worked with Woodard and Curran to develop a tool that will evaluate potential rate modifications and anticipated associated demand reductions during different shortage stages. The tool estimates water conservation potential by customer sector based on potential adjustments to customer water budget tiers. In the event of a projected shortage, and depending on the shortage level, staff would use the tool to develop recommended rate adjustments for consideration by the Board.

Proposition 218 requires publicly noticing customers of any proposed rate increases at least 45 days prior to adoption of the rate change, and providing an opportunity for customers to provide written protest letters to the proposed change. Rate responses would only be implemented, as warranted based on the level of shortage, at the discretion of the Board of Directors and subject to complying with the requirements of Proposition 218. IRWD initially would rely upon public outreach and non-rate response measures during a declared shortage.

Workshop: Water Shortage Contingency Plan Update

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Next Steps:

Staff will finalize the WSCP based on input received at the workshop. Section 15 of the Rules and Regulations serves as the IRWD "conservation ordinance" and the updated WSCP will serve as the basis for recommended changes to Section 15. Staff expects to present the proposed WSCP and modifications to the Rules and Regulations at the May 14, 2018, Board of Directors meeting. Staff further anticipates recommending adoption of the WSCP and the Rules and Regulations at the May 29, 2018, Board of Directors meeting.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

The proposed actions qualify under Class 7, and Class 8 Categorical Exemptions (Sections 15307 and 15308 of the State California Environmental Quality Act (CEQA) guidelines). In addition, to the extent this plan serves as the basis for the urban water shortage contingency analysis required under Water Code Section 10631 and is incorporated into the IRWD UWMP, its preparation, adoption and implementation are statutorily exempt from CEQA, as set forth in Water Code Section 10652.

COMMITTEE STATUS:

This item was reviewed by the Water Resources and Policy Committee on February 20, 2018.

RECOMMENDATION:

That the Board provide input to the revisions that are being made to IRWD's Water Supply Contingency Plan.

LIST OF EXHIBITS:

Exhibit "A" – Draft Water Shortage Contingency Plan



DRAFT

Water
Shortage
Contingency
Plan Update

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WOOD ARCHIT WOOD AND COMMITMENT & INTEGRITY DRIVE RESULTS

Irvine Ranch Water District March 2018

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1 Introduction

The Irvine Ranch Water District (IRWD) has developed this Water Shortage Contingency Plan (WSCP), in accordance with California regulations, to provide procedures for responding to various levels of supply shortages. Use of local supplies, storage and other supply augmentation measures can mitigate shortages, and will be in use to the maximum extent possible during declared shortage levels. The remaining shortage levels after use of local emergency supplies can be addressed by employing a range of demand reduction measures that will vary in severity depending on the level and duration of the shortage condition. While these measures will be applied incrementally, IRWD's WSCP builds in a level of flexibility to adopt additional measures to ensure the appropriate level of demand reduction.

This WSCP has been prepared to incorporate the lessons learned during the recent California drought, as well as new elements from the state's long-term framework document, *Making Water Conservation a California Way of Life, Implementing Executive Order B-37-16*, which was released in April 2017. It is important to emphasize that every drought or other water supply emergency involves a unique set of challenges. The plan should be thought of as a general framework that will need to be adjusted and refined based on actual conditions.

1.1 WSCP Requirements

The California Code Section 10632 requires IRWD to develop an urban water shortage contingency analysis which includes each of the following elements that are within the authority of the urban water supplier:

- a) Anticipated stages of action to be undertake by the urban water supplier in response to water supply shortages, including up to a 50 percent reduction in water supply, and an outline of specific water supply conditions that would trigger each stage;
- b) An estimate of the minimum water supply available during each of the next three water years based on the driest three-year historic sequence for the agency's water supply;
- Anticipated actions to be undertaken by the urban water supplier to prepare for, and implement during, a
 catastrophic interruption of water supplies including, but not limited to, a regional power outage, an
 earthquake, or other disaster;
- Additional anticipated mandatory prohibitions against specific water use practices during water shortages;
- e) Consumption reduction methods in the most restrictive stages. Each urban water supplier may use any type of consumption reduction methods in its water shortage contingency analysis that would reduce water use, are appropriate for its area, and have the ability to achieve a water use reduction consistent with up to a 50 percent reduction in water supply;
- f) Penalties or charges for excessive use, where applicable;
- g) An analysis of the impacts of each of the actions and conditions describe in bullets a) to f), inclusive, on the revenues and expenditures of the urban water supplies, and proposed measure to overcome those impacts, such as the development of serves and rate adjustments;
- h) A draft water shortage contingency resolution or ordinance; and
- i) A mechanism for determining actual reductions in water use pursuant to the urban water shortage contingency analysis.

1.2 Recent Implementation of WSCP

On January 17, 2014, Governor Brown proclaimed a Drought State of Emergency, which called on Californians to voluntarily reduce water consumption by 20%. In September 2014 IRWD's Board responded to the drought and the Governor's Emergency Proclamation by declaring a Level 1 Shortage Warning. In response to worsening statewide

drought conditions, on April 1, 2015 the Governor issued an Executive Order that mandated a 25% statewide reduction in urban potable water use compared to 2013 water use levels. For IRWD, the State Water Resources Control Board (State Board) mandated a water use reduction target of 16% compared to 2013 levels. In July 2015, IRWD's Board of Directors (Board) declared a Level 2 Shortage Condition aimed at reducing demands by 10-25% in response to the State Board's mandate. Response measures and other lessons learned from this recent enactment of the WSCP have been incorporated into this WSCP update.

1.3 Legal Authority

Under California law, including California Water Code Chapters 3.3 and 3.5 of Division 1, Parts 2.55 and 2.6 of Division 6, Division 13, and Article X, Section 2 of the California Constitution, the Board is authorized to implement the water shortage actions outlined in this WSCP. In all water shortage cases, shortage measures to be implemented, including adjustments to the allocations, tiers and rates, will be at the discretion of the Board and will be based on an assessment of the supply shortage, customer response, and need for demand reductions.

1.4 Shortage Response Levels

The WSCP provides guidelines for responses to varying levels of supply shortages in six standard shortage levels. The WSCP includes actions that can be implemented to reduce demands down to specific levels in accordance with reduced supply availability. The levels of action identified in the WSCP are shown in **Table 1-1**.

IRWD Shortage Level	Percent Supply Reduction	Water Supply Condition
Level 1	0% - 10%	Shortage Warning
Level 2	11% to 20%	Significant Shortage
Level 3	21% to 30%	Severe Shortage
Level 4	31% to 40%	Severe Shortage
Level 5	41% to 50%	Crisis Shortage
Level 6	50% +	Crisis Shortage

Table 1-1: Shortage Levels in Water Shortage Contingency Plan

Levels or stages of the WSCP are declared at the direction of IRWD's Board of Directors depending on the level and duration of the water shortage. The Board evaluates water supply conditions and, if it determines that a shortage exists, declares the corresponding level of the WSCP. As part of the declaration, it is at the discretion of the Board to implement specific water shortage restrictions, prohibitions, and demand management measures.

2 Characterization of Shortage Conditions

In 2008, IRWD's Water Reliability Study forecasted potential water supply gaps due to climate change and environmental restrictions on the State Water Project (SWP). Since that time, IRWD has offset potential water supply gaps by continuing investments in conservation, a diverse mix of drought resilient supplies, and by securing groundwater banking resources. IRWD's 2016 Water Supply Reliability Evaluation is a recent, comprehensive, reliability analysis that provides an updated understanding of how current and future vulnerabilities - such as imported water supply shortages, climate change impacts, and facility outages - impact water supply. The effort was completed in coordination with the 2016 Orange County Water Reliability Study initiated by the Municipal Water District of Orange County (MWDOC).

2.1 Supply Reliability Scenario Planning

IRWD's 2016 Water Reliability Evaluation considered potential scenarios affecting the reliability of IRWD's water supplies. A brief summary of these scenarios are described below.

- a) Planned Conditions: Planned conditions are based on existing conditions including water supply projects currently planned by IRWD and imported water supplies currently planned by the Metropolitan Water District of Southern California (MWD), the regional provider of imported water to Southern California. This scenario assumes no new water supply investments.
- b) Major California Drought: Increased duration and frequency of major California droughts would impact the availability of Santa Ana River recharge to the Orange County Groundwater Basin and the availability of imported water to MWD from the SWP.
- c) Colorado River Shortage: The Colorado River is consistently over-allocated and MWD's imported supply from the Colorado River Aqueduct (CRA) has a lower priority within California's allocation. Ongoing discussions between basin states are addressing to what extent, if any, California would participate in a cutback and under what conditions the cutback would be implemented.
- d) Climate Change: Reduction in the total snowpack due to warmer storms could mean reduced imports of Colorado River and SWP water. Salt water intrusion of the San Francisco Bay Delta (Bay Delta) due to sea level rise could pose as the greatest long-term risk to the SWP water supplies. Climate change was also estimated to affect the availability recharge to the Orange County Groundwater Basin.
- e) Delta Levee Failure: A seismic event in the Bay Delta causing a levee failure can flood the Bay Delta islands with salt water and interrupt SWP exports due to impaired water quality. The level of impact will depend the extent of damage (i.e. number of levee failures, specific Bay Delta islands, and season).
- f) Bay Delta Environmental Restrictions: Restrictions from the Bay Delta to protect local wildlife have reduced SWP allocations. There is potential for future restrictions to protect the environment. The "California WaterFix" currently being planned will help increase the reliability of SWP deliveries by bypassing the Bay Delta and thus reducing environmental impacts on the Bay Delta.
- g) Facility Outages and Seismic Events: Local plant outages or seismic events that damage treatment or conveyance facilities may create disruptions to imported and local water supply deliveries. Local seismic events could potentially disrupt services from either the Baker Water Treatment Plant or local groundwater well fields. Potential effects on MWD deliveries could results in outages as long as six months, depending on severity.

To evaluate the overall reliability of IRWD's potable water supply system, these scenarios were run using IRWD's Integrated Resources Planning Distribution System Model (IRPDSM) model, a comprehensive distribution system model which simulates deliveries and storages of imported water through IRWD's distribution system.

Table 2-1 indicates the shortages levels in the WSCP as they correlate with the reliability scenarios described above. The scenarios in Table 2.1 are each single scenarios and not combinations of scenarios unless specifically stated. For example, scenarios that could produce a Level 1 shortage of up to 10 percent are either planned conditions, or a Colorado River shortage or climate change or a Delta levee failure. These identified shortage levels are <u>prior</u> to utilizing emergency supplies from IRWD's Water Banking Program. With use of the Water Banking Program, no supply shortage gaps were identified. A water supply held in reserve by IRWD would be to overdraft the local Orange County Groundwater Basin. Overdrafting the aquifer by pumping above the Basin Production Percentage (BPP) set by the Orange County Water District (OCWD) would be a feasible and available source of water of last resort should IRWD's Water Banking Program not have supplies available in the amounts listed in Table 2-1. As discussed in more detail below, the Water Banking Program would be used in combination with other response actions in this WSCP.

Table 2-1: IRWD Reliability Scenarios, Shortage Levels and Projected Use of Water Banking Supplies

Reliability Scenario	IRWD WSCP Shortage Level	Max Annual Anticipated Water Bank Usage (AFY)
 Facility Outages and Seismic Events 	No Shortage Identified	Access may be limited
 Planned Conditions Colorado River Shortage Climate Change Delta Levee Failure 	Level One Shortage Warning (up to 10%)	300 to 3,000
Major California Drought	Level Two Significant Shortage (up to 20%)	7,300 to 11,500
 Major California Drought and Bay Delta Environmental Restrictions 	Level Three Significant Shortage (up to 30%)	14,800 to 18,100
Barrard Correction	Level Four Severe Shortage (up to 40%)	
Beyond Currently Forecasted Events	Level Five Crisis Shortage (up to 50%)	18,100+ AFY
	Level Six Crisis Shortage (exceeding 50%)	

2.2 Catastrophic Interruption

Catastrophic interruptions could be the result of regional power outages, earthquakes, floods, water supply interruptions, structural damage from an explosive device, and threat of or possible contamination to the water system. IRWD's response to a catastrophic interruption of water supply would depend on the cause, severity and anticipated duration of the emergency. A potential shortage resulting in a reduction of available supplies can be addressed through a combination of alternative supplies and storage, combined with low level implementation of the WSCP. Since IRWD's major potable water sources include both imported water (including IRWD's groundwater banking) and local groundwater, it is unlikely that outage of both sources would occur simultaneously.

A 2008 USGS Study entitled "The Uniform California Earthquake Rupture Forecast" indicated that there is a 97% probability of an earthquake of magnitude 6.7 or greater in Southern California and a 37% probability of an earthquake greater than 7.5 in magnitude within the next 30 years. Local seismic events have the potential to temporarily disrupt service from either the regional facilities or local well fields. A seismic event could also cause damage to the well field that would permanently limit the production capability of one or more wells. Potential effects of earthquakes on MWD deliveries could result in outages as long as six months, as shown in **Table 2-2**.

Table 2-2: Estimated Outage Durations from Seismic Events

Regional Facilities	Moderate Earthquake (M 6.7)	Extreme Earthquake (>M 7.0)
MWD – Colorado River Aqueduct	1 month	6 months
DWR – State Water Project	Up to 6 months	6+ months
MWD – Conveyance and Distribution	1 week to 2 months	1 week to 3 months
MWD – Treatment Plants	Up to 1 month	Up to 6 months

Local plant outages or seismic events that damage treatment or conveyance facilities may create short term disruptions to imported and local water supply deliveries. Unlike drought conditions, which manifest over a number of years, the response measures available to respond to a catastrophic interruption are limited. During such an event, the IRWD Board, at its discretion, may choose to implement mandatory measures at earlier levels of shortages.

2.3 Multiple Dry Year Analysis

IRWD's 2015 Urban Water Management Plan (UWMP) includes an assessment of IRWD's reliability during normal, dry and multiple dry water years. **Table 2-3** provides total projected supply capacities expected to be available to IRWD through 2035. These future available water supply projections are based on historical groundwater production, planned future supply projects, as well as information from MWD and MWDOC's 2015 UWMPs. Based on its diversified water supply portfolio, the UWMP finds that IRWD's supplies have remained essentially constant between normal, single-dry and multiple dry years. Based on this assessment, IRWD finds that it will be reliable under single-dry and multiple dry years.

Table 2-3: Multiple Dry Years Supply and Demand Comparison

		2020	2025	2030	2035
	Supply totals	142,197	154,549	154,549	154,549
First Year	Demand totals	103,195	113,378	117,091	119,066
	Difference	39,002	41,171	37,458	35,483
	Supply totals	142,197	154,549	154,549	154,549
Second Year	Demand totals	103,195	113,378	113,378	113,378
	Difference	39,002	41,171	37,458	35,483
	Supply totals	142,197	154,549	154,549	154,549
Third Year	Demand totals	103,195	113,378	117,091	119,066
	Difference	39,002	41,171	37,458	35,483

From IRWD 2015 Urban Water Management Plan, Table 7.4.

3 Implementation

3.1 Supply and Demand Assessment

The IRWD Board, in accordance with the provisions of the California Water Code, will determine and declare the shortage level based on an assessment of the available supplies and demands. The evaluation process is conducted to determine if a shortage declaration is needed, and at what level. The regional shortage level is calculated by projecting total short-term water demands within IRWD's service area and comparing these demands to the available water supplies. The supply analysis includes hydrologic and regulatory conditions that impact supplies such as

imported water, groundwater, and surface water. Drought resilient, hydrologically independent supplies, such as recycled water, are considered fully reliable, and can be excluded from the required estimated shortage reduction.

The supply and demand assessment will be initiated in response to triggering events, such as a potential water shortage plan allocation of imported water supplies from MWD, or more frequently as required by the California Water Code. IRWD recognizes that it is best to ask customers to respond to a water shortage as early as possible, at a minimal level, to encourage voluntary conservation and to gain public support and participation and reduce the likelihood of more severe shortage levels later.

3.1.1 Projected Water Demand

To project water demands for a reliability analysis, IRWD uses land use data obtained through the multiple jurisdictions (cities and County) within IRWD's service area, in conjunction with updated water use factors to estimate water requirements using demand forecasting tool. The water use factors are based on average water use and incorporate the effect of IRWD's budget-based rate conservation pricing and its other water conservation programs. For short-term water demand forecasts, applicable to temporary management measures under a potential shortage designation, IRWD will use a recent representative period and assume an equal level of unmitigated use into the upcoming year, and up to 2 years.

It should be noted that recycled water currently meets a large portion of the landscape irrigation demands within IRWD's service area. Furthermore, IRWD has implemented successful water use efficiency and outreach programs since the early 1990's. These efforts combined with the long-term use of budget-based rates, have resulted in somewhat hardened levels of demand and less discretionary water use.

3.1.2 Imported Water Shortage

An imported water supply shortage represents one of the main causes of a potential supply shortage for IRWD. MWD is responsible for importing water into the region through its contract with the State of California for State Water Project supplies and its operation of the Colorado River Aqueduct. Both sources are blended at MWD's Diemer and Weymouth Water Treatment Plants and then distributed to member agencies.

MWD uses its Water Surplus and Drought Management (WSDM) Plan to guide its planning, operations, and water management during both shortage and surplus conditions. In times of shortage, MWD's Board may activate its Water Supply Allocation Plan (WSAP) based on its estimate and forecast of supplies, demands, and reserve levels. If forecasted supplies and demands are determined to put pressure on MWD's storage reserves, its Board may decide to limit the availability of water by implementing its WSAP. The MWD WSAP has 10 levels of water supply allocations, each corresponding to an additional 5 percent reduction of supply.

Under MWD's Regional Shortage Levels shown in Table 3-1, IRWD's retail level reliability is high due to IRWD's lower dependency on imported MWD supplies and additional credits and adjustments (primarily from the retail impact adjustment and demand hardening credit). As a comparison, IRWD's retail level reliability (excluding recycled water) remains substantially reliable at a Regional Shortage Level 10, and MWD WSAP allocations can be met with water supplies from IRWD's Water Banking Program or from pumping above OCWD's BPP as a supply of last resort. If MWD implements its WSAP, then supplies stored in IRWD's Water Banking Program qualify as an "extraordinary supply" and IRWD is allowed to take delivery of that supply through MWD's system, which increases IRWD's WSAP allocation from MWD. As previously illustrated in Table 2-1, IRWD would not experience shortage gaps in any IRWD stages with the use of its water banking supplies. The table below assumes normal levels of local hydrology. Refer to Section 2 for a discussion of how combinations of local hydrologic scenarios and imported supply reliability can impact IRWD's reliability.

Table 3-1: MWD WSAP and IRWD Shortage Levels

MWD Regional Shortage Level	Regional Shortage Percentage	IRWD Reliability	IRWD Shortage Level
Level 1	5%	100%	Level 1
Level 2	10%	99%	Level 1
Level 3	15%	98%	Level 1
Level 4	20%	97%	Level 1
Level 5	25%	96%	Level 1
Level 6	30%	95%	Level 1
Level 7	35%	94%	Level 1
Level 8	40%	93%	Level 1
Level 9	45%	92%	Level 1
Level 10	50%	90%	Level 1

3.2 Monitoring and Reporting

IRWD is fully metered, allowing for detailed accounting of water use in the service area. Monthly meter reads provide IRWD with a significant quantity of data for tracking and reporting actual reductions in water use in response to a water shortage. IRWD's budget-based rates are designed to achieve the necessary reductions in water use. Each month during a shortage IRWD determines how much water each customer has used in relation to their budget. This comparison is used to track attainment of water use reduction goals for the agency and is included in the customer's bill to encourage compliance with the water budgets.

3.3 Re-Evaluation and Improvement Process

The WSCP will be re-evaluated at least every five years in coordination with the UWMP update and more frequently at the discretion of the Board. An evaluation on the effectiveness of the water shortage response actions on demand levels will be conducted following future implementation of the WSCP. The evaluation will compare the expected percent demand reduction against actual reductions, and measures in the WSCP will be revised appropriately. IRWD will also assess the effectiveness of the communication plan so that it may be modified as appropriate in the future.

4 Emergency Supplies

IRWD's Water Banking Program provides an important water management tool to improve imported water reliability and protect IRWD customers during potential shortages. This source of supply is in addition to the supplies that IRWD draws upon during non-shortage times and is only used as "extraordinary supply" during shortages triggered by MWD allocations or other conditions.

Water banking is the practice of recharging water to underground storage aquifers during wet periods and recovering this water for later use. IRWD's stated goal in its Policy Position for Water Banking, Transfers and Wheeling (2017) is to provide a cost effective and reliable supplemental source of water that could be called upon during drought conditions or supply interruptions. In the event of a major supply interruption, this water would be available to fulfill IRWD's estimated needs for imported water over extended periods of time. IRWD's Water Banking Program provides IRWD the ability to store and recover this supplemental water to meet long-term supply reliability requirements. IRWD considers dependence on overdrafting the Orange County Groundwater Basin by pumping above OCWD's BPP as a supply of last resort. This is a feasible and available supply that exists as a backup should IRWD's Water Banking Program not have adequate supplies to meet the needs of a shortage condition.

5 Shortage Response Actions

In addition to basic measures, which are always in effect, there are different types of response measures that can be implemented by IRWD in the event of a supply shortage. These response measures represent a "toolbox" with a range of actions that can be used in combination, according to the severity and duration of the shortage.

- a) Voluntary reduction measures through expansion and enhancement of IRWD's conservation and outreach programs
- b) Use of the IRWD's budget-based rate structure
- End use prohibitions and use of mandatory enforcement measures
- d) Operational drought control measures.

5.1 Basic Measures Always in Effect

The following basic measures are considered good water management practices and are always in effect in IRWD's service area regardless of whether a shortage level is declared. These measures are contained in IRWD's Rules and Regulations (Section 15).

- a) Gutter Flooding No person shall cause or permit any water furnished to any property within IRWD to run or to escape from any hose, pipe, valve, faucet, sprinkler, or irrigation device into any gutter or otherwise to escape from the property if such running or escaping can reasonably be prevented.
- b) Leaks No person shall permit leaks of water that he has the authority to eliminate.
- c) Washing Hard Surface Areas Washing down hard or paved surfaces, including, but not limited to sidewalks, walkways, driveways, parking areas, tennis courts, patios or alleys, is prohibited except when necessary to alleviate safety or sanitary hazards.
- d) Washing of Motor Vehicle No person shall wash a motor vehicle with a hose not fitted with a shut-off nozzle or similar functioning device.
- e) Use of Potable Water in a Fountain No person shall use potable water in a fountain or other decorative water feature, except where the water is recirculated.
- f) Application of Potable Water to Outdoor Landscapes No person shall apply potable water to outdoor landscapes during and within 48 hours after measurable rain.
- g) Irrigation of Street Medians No person shall use potable water to irrigate ornamental turf on public street medians.
- h) Newly Constructed Homes and Buildings No person shall use potable water to irrigate landscapes outside of newly constructed homes and buildings in a manner inconsistent with regulations or other requirements established by the California Building Standards Commission and the Department of Housing and Community Development.
- i) Waste No person shall cause or permit water under his control to be wasted.

In addition, IRWD has a budget-based rate structure based on the cost of service, which also limits the amount of water allocated to each customer to an amount that is reasonable for the customer's needs and property characteristics, reducing wasteful use of water. When a declared shortage condition is not in effect, basic allocations established by IRWD are limited to the amount that is reasonable for the customer's needs and property characteristics and exclude wasteful use.

5.2 Voluntary Reduction Measures

IRWD has always taken a proactive approach to water conservation and is looked to as a leader by other water agencies throughout the state and country. IRWD implements a wide-range of conservation programs, designed to target all customer sectors. They are continually evaluated to maximize water savings and modified to integrate the latest water efficient technologies and practices. Specific programs that IRWD currently relies upon to promote water conservation are listed below.

- Free on-site assistance and customized reports for customers in all sectors to help identify opportunities for water savings, eliminate water waste, and to recommend appropriate programs and strategies to reduce water demands
- Water Smart Reports that provide enhanced customer engagement through multiple communication methods.
- Turf replacement installation and rebate programs.
- Rebates for weather-based irrigation controllers, drip irrigation and rain barrels.
- Direct installation programs and rebates for high efficiency plumbing devices.
- Rebates for high efficiency clothes washers.
- Rebates for commercial and industrial efficiency devices, such as cooling tower conductivity controllers
- Performance based incentive program for commercial, industrial and institutional (CII) customers to upgrade
 equipment and improve their water processes to provide greater water use efficiency. High use CII accounts
 are targeted for participation in the program.
- Fix A Leak program.
- Robust system water loss prevention and meter testing programs.

During the recent implementation of the WSCP in 2014 and 2015, IRWD took a proactive approach in expanding and enhancing these conservation and outreach efforts as part of a Drought Action Plan. In the event of a future water shortage, IRWD will develop a similar implementation plan to increase levels of voluntary conservation using an adaptive approach, while taking into account the IRWD's financial stability, and the ease and timing of implementation. Under this action, the following measures will be considered.

- a) Expand Conservation Programs Contracting with a qualified firm or recruiting temporary staff to significantly increase resources to expand existing water use efficiency programs, including the residential survey program, large landscape survey program, and outdoor education and workshops.
- a) Increased Rebate Funding Enhance incentives and rebate programs, such as turf replacement installation, high efficiency clothes washers, and commercial and industrial devices.
- b) Targeted Outreach IRWD will increase ongoing outreach efforts to more aggressively target wasteful tier customers. Additional outreach includes employee training at high use businesses, working with the public sector on raising public awareness, and demonstrating reduced usage at public sites.
- Direct Install Programs Implementing direct install programs to retrofit inefficient devices and landscape equipment.

5.3 Use of Budget-Based Rates

IRWD's budget-based rate structure was instituted in 1991 to promote the efficient use of water and is designed to provide customers a significant economic incentive to use the non-wasteful amount of water required to serve indoor, landscape, commercial/industrial and institutional demands. This is accomplished by setting a customized monthly water budget, for each customer account that is based upon a variety of factors such as: irrigated area, daily weather characteristics, number of residents, industrial or commercial business type, and other more unique characteristics such as the presence of a pool, livestock or specialized industrial equipment.

Water is sold to customers under a four-tier structure based upon their monthly water budget, which varies for landscape use relative to weather patterns. Customers using water within budget purchase water in the Low Volume and Base Rate tiers resulting in lower water bills. Customers using in excess of their budget purchase water in the Inefficient and Wasteful Tiers, resulting in higher water bills and a strong pricing signal to curb excessive use. The higher rates for over budget use incorporate the additional cost to IRWD of acquiring water supplies to meet overbudget demand, as well as the additional cost of demand management measures in a shortage. IRWD's 2017-18 domestic residential commodity rates for each of the four tiers are shown in **Table 5-1**.

Customer Tier	Percent of Budget	Rate Per CCF
Low Volume	0 – 40%	\$1.36
Base Rate	41 – 100%	\$1.70
Inefficient	101 – 140%	\$4.09
Wasteful	141% +	\$12.06

Table 5-1: Commodity Rates for Residential Customers

5.3.1 Adjustments to Budget-Based Rates

Application of any or a combination of water budget adjustment strategies will place customers into the higher usage tiers, which acts as a reporting and enforcement mechanism by creating a strong financial incentive for customers to reduce demands by paying their proportional cost of receiving water service. Three types of water budget adjustments can be established and refined based on customer response in such a way that specified uses are discouraged. Adjustments to the water budgets, tiers and rates will be at the discretion of the Board, and subject to public notice and rate hearing process under Proposition 218.

- a) Adjusting the Tier Thresholds This strategy does not adjust the actual water budget formula itself, but rather adjusts the percentage thresholds for the over-budget tiers. The current tiers are thresholds for the various account types. Adjusting the tier thresholds downward would have the effect of shifting more use into the higher tiers. Customers in these tiers would be subject to increased rates depending on the extent of their use (percentage of use over budget). Reducing the tier thresholds incentivizes customers to consume less water.
- b) Customer Water Budget Adjustments An adjustment to the water budget entails refining the water budget formula. This can be done either as a simple percentage adjustment or by adjusting a specific portion of the formula. For example, residential water budgets are made up of an indoor plus an outdoor budget component. It is possible to adjust the outdoor component downward to allow for less outdoor irrigation or eliminate it altogether depending on the need for demand reductions. Water budgets could also be set to levels that would eliminate all outdoor water use including irrigation, car washing, pool filing, agricultural use of non-recycled water etc. Under this scenario the indoor component could be left the same or could be altered as necessary.
- c) Rate Increases for Over-Budget Use This approach entails adopting higher rates for over budget use and would be linked to purchases of imported water at MWD's penalty rates, among other things. The establishment of utility rates is subject to the requirements of Proposition 218, which requires that established rates do not exceed the proportional cost of service to any specific class of customers.

5.3.2 Adjustments to Budget-Based Rates

A detailed analysis of the customer usage by tier, using the most recently available data, is one of the first steps that should be undertaken in developing demand management strategies in response to shortage conditions. IRWD has developed the *Water Shortage Contingency Plan Multiplier Tool* to estimate demands and potential water savings from budget-based rates during shortage conditions. The tool is based on the use of a multiplier to be applied to the

percentage thresholds for customer tiers. An example of a hypothetical 75% multiplier is shown in **Table 5-2**. Note that the tool does safeguard water supplies for uses that meet public health needs by maintaining the current definition of the Low Volume tier.

Table 5-2: Example of Multiplier Applied to Tier Definition

Customer Tier	Current Tier Definition	Multiplier (75%)
Low Volume	0 – 40%	0 – 40%
Base Rate	41 – 100%	41 - 75%
Inefficient	101 – 140%	76 – 106%
Wasteful	141% +	107% +

The use of the Water Shortage Contingency Plan Multiplier Tool is based on the following four steps:

Data on Usage by Customer Category – The tool uses the most recent available monthly billing data by tier for Single Family Residential, Multi-Family Residential, Landscape, Commercial, Industrial, and Public Authority customers. All data is for non-recycled water (the tool does include an analysis of recycled water use). For longer term planning, the tool incorporates demand forecasting and estimates future demand hardening from conservation.

Identify Savings Potential – The savings potential in each customer category is defined to discourage specific uses of water. During the early shortage levels, the tool targets the elimination of discretionary (primarily outdoor) uses of water, as defined by water use in the Inefficient and Wasteful tiers. At deeper levels of shortage, the tool targets additional savings, up to the elimination of all outdoor water use beyond what is required to maintain drought-friendly landscaping. During an emergency, the tool targets up to the elimination of all outdoor water use, and up to minimum indoor amount required for public health and safety needs.

Estimate Response Rate – The estimated water use reductions achieved from implementing changes to the budget-based rates is calculated by assessing recent research on customer ability and willingness to comply with rate-based measures, as well as IRWD's experience with use of budget-based rates, and the previous implementation of the WSCP.

Determine Water Use Reductions – The final step involves balancing water use reductions across customer categories to achieve the desired level of demand management. The multipliers as applied to each customer class will vary due to several factors, including the targeting discretionary uses where appropriate, and avoiding impacts to the economy. **Table 5-3** provides a hypothetical example of multipliers as applied to each customer category.

Table 5-3: Example of Savings Estimate

Customer Sector	Multiplier	Estimated Savings	
Single Family	0.75	15%	
Multi Family	0.80	12%	
Landscape	0.60	30%	
Commercial	0.9	5%	
Industrial	0.9	5%	
Public Authority 0.9		5%	
Total Non-Recycled Savings: 12%			

5.4 End Use Prohibitions

Through adopted resolutions, IRWD has provisions for mandatory prohibitions of certain end uses, if necessary, based on the water shortage level declared. Examples of consumption reduction measures used by IRWD are summarized as follows.

- a) Serving of drinking water Only to be served upon request in eating or drinking establishments.
- b) Ban on car-washing and pool-filling Demand reductions on car-washing and pool filling that cannot be achieved through voluntary measures and financial incentives related to adjustments in the budget-based rate structure would be attained through a ban on these actions.
- c) Municipal Uses Elimination of specific municipal uses such as unrequired hydrant flushing.
- d) Construction Activities Recycled water shall be required for construction activities, including earthwork, dust control and clean-up. IRWD may, at its discretion, waive this requirement if it can be demonstrated to IRWD's satisfaction that compliance with the requirement imposes undue hardship.
- e) Street Sweeping The use of recycled water shall be required for street sweeping activities. IRWD may, at its discretion, waive this requirement if it can be demonstrated to IRWD's satisfaction that compliance with the requirement imposes undue hardship
- f) Commercial Car Washes Commercial conveyor and in-bay car wash systems must reuse water if equipped to do so.
- g) Common Interest Associations Common interest associations shall not fine or assess owners of separate interests for reducing or eliminating the watering of vegetation or lawns, unless the association uses only recycled water for irrigation of the association's common areas and recycled water is also available at the irrigated area of the separate interest.

5.4.1 Critical Shortage Measures

In an emergency, the primary function of IRWD's water supply system is to meet essential public health and safety needs. IRWD may determine that it is necessary to use mandatory restrictions and possible discontinuation of non-health and safety related service in order to achieve the necessary demand reductions at crisis level shortages. In addition to the measures implemented in all prior stages, IRWD may impose any combination of the following mandatory measures.

a) Potable Irrigation Ban – Outdoor irrigation would be the initial target for any demand reductions. Demand reductions or eliminations that cannot be met through voluntary measures and financial incentives related to adjustments in the budget-based rate structure, would be attained through a ban on potable irrigation.

- b) Flow restrictors Under extreme conditions of noncompliance, IRWD could install flow restrictors in individual service lines. Thus, water would be available for drinking, cooking, sponge baths, and slow fill of toilet tanks, but showers and other high volume type uses would not be possible. Under these conditions individual customer reaction would be severe. It would probably be necessary to augment the customer service field service staff to maintain surveillance of these services to assure that unauthorized changes are not made by the customer.
- c) Mandatory Restrictions and Fines IRWD's ability to establish restrictions on water use and to possibly discontinue non-health and safety related service in the case of repeat violators is provided for under the California Water Code, Division 1, Chapters 3 and 3.5.

5.4.2 Enforcement

IRWD's Rules and Regulations (Section 15) provide for enforcement and penalties that may apply to violators during a water shortage. An excess use charge based upon the budget-based rate structure, which is always in effect, is sufficient to encourage demand reduction to required levels. Depending on the level of shortage, IRWD may reduce customer billing water budgets, tighten the tiers, increase rates, or some combination of those strategies to obtain the necessary reductions. IRWD also has the ability to establish restrictions on water use or to discontinue service in the case of repeat violators under the Water Code of the State of California.

5.5 Operational Drought Control Measures

Recycled water has proven to be an effective drought resilient reliable supply as a result of the fact that sewage flows remain virtually unaffected by dry years. During a water supply shortage, IRWD will conduct an evaluation that will focus on expanding the authorized use of recycled water where it can replace potable water use. Due to regulatory requirements, conversions and expansions of use may take longer to implement than other actions, but can be expedited when feasible, particularly for projects that are already in process. The following is a list of recycled water customer development programs that can be expanded during a water supply shortage:

- a) Potable Irrigation Conversions
- b) Industrial Process Water Conversions
- c) Cooling Towers Conversions
- d) Street Sweeping/Construction
- e) Agricultural Customers

6 Stages of Action

The levels of shortage are declared at the direction of IRWD's Board depending on the assessment of the available water supplies and demands. As part of the declaration, the Board will implement specific demand management measures. **Table 6-1** provides the levels of shortage that may be declared, and a combination of the potential strategies that are likely to be sufficient to achieve the necessary demand reductions according to the severity and duration of the shortage. It is at the Board's discretion to use a combination of water shortage measures in a way it deems most appropriate.

Table 6-1: Shortage Levels and Response Actions Considered

Shortage Level	Response Type	Supply Shortage Response Actions Considered	Estimated Savings
Level 1	Voluntary	Increase outreach efforts for over-allocation customers and expand leak alert program	
	Voluntary	Expand residential survey program, large landscape survey program, outdoor education programs and workshops, and establish water waste reporting "hotline"	
Level 2	Rate Based	Review of allocations and potential adjustments to target discretionary outdoor uses for residential and landscape customers	11% - 20%
	End Use Prohibitions	Discourage filling of fountains, pools, and water features and other discretionary uses	
	Operational Measures	Conduct evaluation on operational measures to reduce potable water use and expand the authorized use of recycled water	
Level 3	Voluntary	Increase rebate amounts, targeted outreach and employee training at high use businesses, implement a public outreach campaign and work with public sector on raising public awareness and demonstrating reduced usage at public sites	21% - 30%
	Rate Based	Review of residential and landscape allocations and target potential adjustments to limit residential and landscape customers to efficient irrigation of low drought tolerant landscaping	Savings 10%
	Voluntary	Implement direct install programs to retrofit inefficient devices and landscape equipment	
Level 4	Rate Based	Review commercial, industrial, and public authority allocations, and consider adjustments to maximize potential savings while minimizing economic impacts	31% - 40%
	End Use Prohibitions	Elimination of specific municipal uses such as hydrant flushing, street cleaning, and water-based recreation	
	Voluntary	Implement pay to save incentive programs for industrial customers	
Level 5	Rate Based	Review residential and landscape allocations and consider adjustments to target the elimination of all non-recycled outdoor uses	41% - 50%
	Mandatory Measures	Eliminate non-recycled water outdoor use (100% reduction)	
	Rate Based	Review of residential allocations and potential adjustments to target all uses not required for health and safety	
Level 6	Mandatory Measures	Use of flow restrictors on severely over-allocation accounts that are non-responsive to outreach, and other mandatory restrictions and enforcement, as necessary	51% +

6.1 Level One (Shortage Warning – up to 10% shortage)

Level 1 is a shortage warning and low-level shortage condition intended to address supply reductions of up to 10%. Measures considered Level 1 would include the following voluntary actions:

- Increase public awareness of water supply situation and conservation opportunities
- Encourage diligent repair of water leaks

The measures used in Level 1 are designed to achieve reductions in outdoor over-irrigation. An enhanced public awareness campaign would be targeted toward customers that use water in excess of their water budget amounts, to help them identify the source of their overuse, and correct the problem. General conservation efforts include dedicated pages on IRWD's website, information provided in the customer newsletter, and drought-related presentations to groups such as city council, community associations, chambers of commerce, business groups, and schools.

6.2 Level Two (Significant Shortage Condition – up to 20% shortage)

Level 2 is a significant shortage condition intended to address supply shortages between 11% an 20%. Measures considered under Level 2 would incorporate the actions taken under Level 1, and would include the following:

- Expand water conservation programs and projects, including residential survey program, large landscape survey program, outdoor education programs and workshops
- Establish water waste reporting "hotline"
- Review of allocations and potential adjustments to target discretionary outdoor uses for residential and landscape customers.
- Prohibitions on filling of fountains, pools, and water features, as well as specific municipal uses.

The measures used in Level 2 are intended to target discretionary uses of water. These measures require shorter lead time to implement, although it should be noted that rate-based measures are subject to public notice and rate hearing process under Proposition 218. Voluntary measures can include short-term expansion of existing programs and may include new programs that can be implemented quickly. Over-budget usage from the changes to tiers would also offset the additional administrative and implementation costs to IRWD including increased staffing to address the expansion of IRWD's water conservation programs and projects.

6.3 Level Three (Significant Shortage Condition – up to 30% shortage)

Level 3 is a severe shortage condition intended to address supply shortages between 21% and 30%. Measures considered under Level 3 would incorporate the actions taken under Level 2, and would include the following:

- Enhance incentives for rebate programs, such as turf replacement installation, high efficiency clothes washers, and commercial and industrial devices.
- Targeted outreach, including employee training at high use businesses, work with public sector on raising public awareness, and demonstrating reduced usage at public sites.
- Implement a public outreach campaign and work with public sector on raising public awareness and demonstrating reduced usage at public sites.
- Conduct analysis of landscape allocations and implement potential adjustments to budget-based rates in order to target elimination of all outdoor water use beyond what is required to maintain drought friendly landscaping.

The measures used in Level 3 are intended to target deeper outdoor use reductions in residential and landscape customers, and additional voluntary reductions from commercial, industrial, and institutional customers. These measures may require a longer time to implement, including coordination workshops, establishing and prioritizing objectives, and Board approval of funding.

6.4 Level Four (Severe Shortage Condition – up to 40% shortage)

Level 4 is a severe shortage condition intended to address supply shortages between 31% and 40%. Measures considered under Level 4 would incorporate the actions taken under Level 3, and would include the following:

- Implement direct install programs to retrofit inefficient devices and landscape equipment.
- Conduct analysis of commercial, industrial, and public authority allocations, and consider adjustments to maximize potential savings while minimizing economic impacts.
- Elimination of specific municipal uses such as hydrant flushing, street cleaning, and water-based recreation.

The measures used in Level 4 are intended to target commercial, industrial, and public authority customers while minimizing negative economic impacts. A Level 4 shortage would require further adjustments to budget-based rates, and new measures that may require longer time for direct install programs to launch and requires board to approval of funding and award of contracts.

6.5 Level Five (Crisis Shortage Condition – up to 50% shortage)

Level 5 is a crisis shortage condition intended to address supply shortages between 41% and 50%. Measures considered under Level 5 would incorporate the actions taken under Level 4, and would include the following:

- Implement pay to save incentive programs for industrial customers.
- Review residential and landscape allocations and consider adjustments to target the elimination of all nonrecycled outdoor uses.
- Eliminate non-recycled water outdoor use (100% reduction).

The measures used in Level 5 are intended to eliminate all non-recycled outdoor use. The measures may require policy changes, enforcement mechanism and consequences such as ability to levy fines or penalties for violations.

6.6 Level Six (Crisis Shortage Condition – exceeding 50% shortage)

Level 6 is a crisis shortage condition intended to address supply shortages exceeding 50%. Measures selected under Level 6 would be designed to incorporate the objectives listed under Level 5, and achieve the following further reduction in use:

- Review of residential allocations and potential adjustments to target all uses not required for health and safety.
- Use of flow restrictors on severely over-allocation accounts that are non-responsive to outreach, and other mandatory restrictions and enforcement, as necessary.

At a Level 6, the Board may determine that it is necessary to use mandatory restrictions and possible discontinuation of non-health and safety related service in order to achieve the necessary demand reductions.

7 Communication Plan

IRWD's communication plan includes the various channels IRWD will utilize in order to convey critical messages regarding water shortage allocations and voluntary and mandatory actions. Public outreach programs can help increase awareness of water shortages, while customer services and workshops can encourage rate-payers to actively participate in demand reducing strategies. A strong communication plan will educate IRWD customers, including local leaders and the business community, on the water supply situation; what actions are proposed; what the intended achievements are; and how these actions are to be implemented. While specific types of messaging are deployed at various shortage response levels, the means by which these messages are conveyed to the public are described in this communication plan.

The single most important step IRWD can take in implementing voluntary measures is to inform customers in order to help reduce water demand. IRWD will employ additional strategies to achieve the necessary demand reductions in a

shortage situation. Most of the effort will be focused on providing additional outreach to high usage tier customers. The community will be informed through the website, press releases, billing inserts, water conservation booths, community association meetings, newsletters etc. Literature will be provided on the shortage condition, conservation methods, and water-saving devices and be distributed through various local organizations and communication channels. The communication channels listed below can help convey the need for immediate conservation.

Public Outreach Program and Social Media – IRWD's public outreach is aimed at promoting voluntary water conservation, something which IRWD has always done. Conservation is a constant ethic and goal, promoted throughout the service area, regardless of drought conditions. IRWD makes extensive use of its website and use of social media, including the use of Facebook, Twitter, Instagram and NextDoor to continually remind customers of the conservation message. The IRWD water use efficiency microsite and the IRWD website heavily features conservation and easy to use irrigation scheduling guideline, information on incentives, and efficient irrigation. IRWD also informs its customers through billing inserts, mailers, water conservation booths, newsletters, postcards, community association meetings, and local public events. Outreach is accomplished by having key IRWD personnel present to groups such as the city council, community associations, chambers of commerce, business groups, etc.

Drought Response Center – In order to respond to increased customer requests for on-site assistance, higher call volumes, and new and expanded water efficiency program offerings, additional temporary staff and consultants will be brought on to augment the water efficiency staff. IRWD will also establish a hot line to respond to customer questions and a special email response program. A drought information webpage will also be provided. The webpage will both local and statewide drought information into one easy to access location.

Campaign – A water conservation or shortage response campaign message will be vigorously promoted to influence public attitudes toward water use.

Media – Extensive use of all available forms of media will be employed and coordinated with other agencies. This includes public service messages on local outlets and press releases in local newspapers. The messaging and level of response will be correlated with the need for demand reductions.

Customer Service – Customers will be encouraged to work collaboratively to save water and to call IRWD's water use efficiency experts for assistance in finding water leaks or providing ways to use water more efficiently. IRWD's Customer Service Department can assist in identifying wasteful activities within the IRWD service area. IRWD staff will contact the customer associated with the property and offer on-site assistance and recommendations to address the problem.

Workshops and Tours – IRWD already offers many workshops and tours to its customers as a part of ongoing outreach. During a drought IRWD will hold workshops targeted toward helping customers reduce outdoor water use and be more efficient. These workshops will be held in various locations throughout the service area in order to reach an increased number of customers. A self-guided garden tour will be established to assist customers in identifying drought friendly landscapes.

Targeting Over-Allocation Customers – IRWD will increase ongoing outreach efforts to more aggressively target wasteful tier customers. Customers in the wasteful tier are notified through a variety of methods including mail, email and telephone. IRWD will continue to offer on-site assistance and audits to customers to help identify the source of wasteful tier use and to provide recommendations for reducing water use

Community Events – IRWD will hold large community events that feature workshops, discussions and hands on learning opportunities. These events will be coordinated with the cities within the service area and with the County of Orange.

8 Financial Plan

The California Water Code Section 10632 requires an analysis of the impacts of each of the actions taken for conservation and water restriction on the revenues and expenditures of the water supplier. The WSCP does not provide a detailed analysis of revenue and expenditure impacts of water shortages because IRWD's billing structure is designed to be insulated from revenue swings resulting from deviations between actual and budgeted water sales and from declining or reduced water sales. IRWD's billing structure consists of a fixed meter charge and a commodity charge based on the number of units of water used. Meter charges are set to meet IRWD's fixed costs of operation (e.g. salaries, supplies, etc.). The base commodity charge is set to match the cost of producing, purchasing and delivering water. Therefore, IRWD can recover its fixed costs regardless of the quantity of water sold, whereas the water sales at any level will cover the costs of providing water. This system has proven to be effective in balancing revenue and expenditures. **Table 8-1** and **Table 8-2** show components of revenue and expenditure impacts that were evaluated and found to have either minimal or no significant impacts.

Table 8-1: Actions and Conditions of the Impact Expenditure

Туре	Anticipated Revenue Reduction
Reduced Sales	Minimal to No Impact
Development of Reserves	Minimal to No Impact
Impact of Supplier's Higher Rates (Tier 2)	Likely Passed through to Customer
Category	Anticipated Cost
Change in Quantity of Sales	Minimal to No Impact
Increased Staff Salaries/Overtime	Minimal to No Impact
Increased Costs of New Supplies/Transfers/Exchanges	Minimal to No Impact

Table 8-2: Proposed Measures to Overcome Revenue Impacts

Name of Measure	Summary of Effects
Review of Rate Adjustment	IRWD can revise its rate structure during water shortage stages which can increase commodity sale revenues if needed to offset MWD shortage tier rates
Reserves	IRWD maintains reserves that can stabilize water rates during times of reduced water sales
Decreased or Deferred Capital and Maintenance Expenditures	If necessary, IRWD can postpone capital expenditures and defer certain maintenance expenditures

March 26, 2018 Prepared and

Submitted by: K. Swan 15

Approved by: Paul A. 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

March 13	Water Agencies of the Inland Empire and Orange County State Legislative	
	Reception, Sacramento	
March 14	ACWA Legislative Symposium, Sacramento	
April 8-11	National Water Resources Association DC Conference, Washington D.C.	
April 19	MWDOC 2018 Water Policy Forum, Fountain Valley	
April 20	Southern California Water Coalition Quarterly Meeting, Irwindale	

Mary Aileen Matheis

March 13	Water Agencies of the Inland Empire and Orange County State Legislative	
	Reception, Sacramento	
April 5	OC Forum Honoring Congressman Ed Royce, Irvine	
April 5	MWDOC Board & Member Agency Elected Officials' Forum, Fountain Valley	
April 12	ACC-OC Business Panel Discussion, Costa Mesa	
April 20	Southern California Water Coalition Quarterly Meeting, Irwindale	

Douglas Reinhart

February 20	South Orange County Agencies' Group Meeting, Trabuco Canyon	
March 30	El Toro Water District's Dedication of Water Wise Demonstration Garden	
April 20	Southern California Water Coalition Quarterly Meeting, Irwindale	
Peer Swan		

Peer Swan

April 5	OC Forum Honoring Congressman Ed Royce, Irvine
April 19	MWDOC 2018 Water Policy Forum, Fountain Valley
April 20	Southern California Water Coalition Quarterly Meeting, Irwindale

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

March 26, 2018

Page 2

John Withers

March 13	Great Park Groundbreaking on Wildlife Corridor
March 29	Independent Special Districts of Orange County Quarterly Luncheon Meeting
March 30	El Toro Water District's Dedication of Water Wise Demonstration Garden
April 12	ACC-OC Business Panel Discussion, Costa Mesa
April 19	MWDOC 2018 Water Policy Forum, Fountain Valley
April 20	Southern California Water Coalition Quarterly Meeting, Irwindale

RECOMMENDATION:

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

LIST OF EXHIBITS:

None.

March 26, 2018

Prepared and
Submitted by: L. Bonkowski
Approved by: P. Cook

CONSENT CALENDAR

MINUTES OF BOARD MEETINGS

SUMMARY:

Provided are the minutes of the March 12, 2018 Special Board Meeting and the March 12, 2018 Regular Board meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE MARCH 12, 2018 SPECIAL BOARD MEETING AND THE MARCH 12, 2018 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" - March 12, 2018 Minutes of Special Board Meeting Exhibit "B" - March 12, 2018 Minutes of Regular Board Meeting

EXHIBIT "A"

MINUTES OF SPECIAL BOARD OF DIRECTORS MEETING - MARCH 12, 2018

The special meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order at 1:00 p.m. by Vice President LaMar on March 12, 2018 at the Multi-Purpose Room, 15600 Sand Canyon Avenue Irvine, California.

Directors Present: Matheis, Withers, LaMar and Swan.

Directors Absent: Reinhart.

Also Present: General Manager Cook, Executive Director of Finance Clary, Executive Director of Water Policy Weghorst, Executive Director of Engineering and Water Quality Burton, and Government Relations Officer Compton

Written and Oral Communications: None.

Items too later to be agendized: None.

OTHER BUSINESS

CLOSED SESSION

Vice President LaMar said that the following Closes Sessions would be held:

- 1) PUBLIC EMPLOYEE PERFORMANCE EVALUATION Pursuant to Government Code Section 54957(b)
- 2) PUBLIC EMPLOYEE APPOINTMENT Pursuant to Government Code Section 54957(b) Title: Legal Counsel

OPEN SESSION

The meeting convened with Directors LaMar, Wither, Swan, and Matheis present. Vice President LaMar said that there was no action to report.

ADJOURNMENT

There being no further discussion, Vice President LaMar adjourned the meeting. at 4:54 p.m.

APPROVED and SIGNED this 26thth day of March, 2018.

President, IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:	
Claire Hervey Collins, Legal Counsel – Lewis Brisbois	

Secretary IRVINE RANCH WATER DISTRICT

EXHIBIT "B"

MINUTES OF REGULAR MEETING - MARCH 12, 2018

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order at 5:00 p.m. by Vice President LaMar on March 12, 2018 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

Directors Present: LaMar, Reinhart (arrived at 5:30 p.m.), Matheis, Swan, and Withers.

Directors Absent: None.

Also Present: General Manager Cook, Executive Director of Water Policy Weghorst, Executive Director of Engineering and Water Quality Burton, Executive Director of Finance and Administration Clary, Director of Public Affairs Beeman, Public Affairs Manager Fabris, Director of Human Resources Roney, Director of Treasury and Risk Management Jacobson, Director of Water Operations Zepeda, Director of Maintenance Drake, Director of Water Operations Roberts, Government Relations Officer Compton, Principle Engineer Cortez, Principle Engineer Akiyoshi, Ms. Kelly Welch, Mr. John Dayer, Mr. Dane Johnson, Mr. Ian Swift, Legal Counsel Smith, Legal Counsel DeMayo, Secretary Bonkowski, Assistant Secretary Swan, Mr. Dan Burmaster and members of the public.

WRITTEN COMMUNICATIONS: None.

ORAL COMMUNICATIONS:

ITEMS TOO LATE TO BE AGENDIZED: General Manager Cook said that last week the District's General Counsel, Nossaman LLP, sent a letter to the Board and staff suggesting a withdrawal from representation from the District. Mr. Cook said additionally, he received confirmation from Nossaman's Managing Partner, Mr. George Joseph, that this letter sent could be characterized as a request for mutual separation. He further said that due to the timing of when this clarification was received after the agenda was posted, he recommends adding an item to the agenda as Item No. 16A on the Action Calendar to consider this request. On MOTION by Swan, seconded and carried (4-0) (Withers, Swan, Withers and Matheis voting aye and Reinhart absent), IT WAS DETERMINED THERE WAS A NEED TO TAKE IMMEDIATE ACTION TO CONSIDER THE REQUEST FOR A MUTUAL SEPARATION WITH NOSSAMAN LLP AS THE DISTRICT'S GENERAL COUNSEL, AND THIS MATTER WAS ADDED TO THE AGENDA AS ITEM NO. 16A (see page 5).

CONSENT CALENDAR

Director Matheis asked that a correction be made to her list of meetings. There being no further comments, on <u>MOTION</u> by Matheis, seconded and carried (4-0) (Withers, Swan, Withers and Matheis voting aye and Reinhart absent), CONSENT CALENDAR ITEMS 3 THROUGH 11 WERE APPROVED AS FOLLOWS:

CONSENT CALENDAR (CONTINUED)

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

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

4. MINUTES OF REGULAR BOARD MEETING

Recommendation: That the minutes of the February 12, 2018 Regular Board Meeting be approved as presented.

5. 2018 LEGISLATIVE AND REGULATORY UPDATE

Recommendation: That the Board adopt an "OPPOSE/OPPOSE UNLESS AMENDED" position on the "Safe and Affordable Drinking Water Act" budget trailer bill and a "SUPPORT IN CONCEPT" position on AB 2050 (Caballero, D-Salina).

6. <u>CULVER DRIVE RECYCLED WATER PIPELINE REPLACEMENT CONSULTANT</u> SELECTION

Recommendation: That the Board authorize the addition of project 10588 in the amount of \$717,000 to the FY 2017-18 Capital Budget and authorize the General Manager to execute a Professional Services Agreement in the amount \$149,850.50 with RCE Consultants to provide design engineering services for the Culver Drive Recycled Water Pipeline Replacement, project 10588.

7. <u>MICHELSON WATER RECYCLING PLANT BIOSOLIDS AND ENERGY</u> RECOVERY FACILITIES CONTRACT CHANGE ORDER NO. 73

Recommendation: That the Board approve Contract Change Order No. 73 in the amount of \$150,755.29 with Filanc/Balfour Beatty for additional electrical conduits and circuits for control of the dewatering centrifuges for the Michelson Water Recycling Plant Biosolids and Energy Recovery Facilities, project 04286.

8. <u>MICHELSON WATER RECYCLING PLANT ASPHALT REPLACEMENT</u> CONTRACT AWARD

Recommendation: That the Board authorize the General Manager to execute a construction contract with Sanders Paving, Inc. in the amount of \$376,133.35 for replacement of approximately 127,350 square feet of asphalt at the Michelson Water Recycling Plant.

CONSENT CALENDAR (CONTINUED)

9. 2017 SEWER REHABILITATION FINAL ACCEPTANCE

Recommendation: That the Board accept construction of the 2017 Sewer Rehabilitation, project 07100, authorize the General Manager to file a Notice of Completion, and authorize the payment of the retention 35 days after the date of recording the Notice of Completion.

10. BAKER WATER TREATMENT PLANT FINAL ACCEPTANCE

Recommendation: That the Board authorize the General Manager to accept construction of Baker Water Treatment Plant, project 05027, authorize the General Manager to file a Notice of Completion, and authorize the release of retention 35 days after filing of the Notice of Completion.

11. <u>ADDENDUM NO. 3 TO THE BAKER WATER TREATMENT PLANT PROJECT</u> FINAL ENVIRONMENTAL IMPACT REPORT

Recommendation: That the Board approve the proposed Addendum No. 3 to the Baker Water Treatment Plant project final Environmental Impact Report, including the determinations set forth in Addendum No. 3, and authorize staff to post and file a Notice of Determination.

ACTION CALENDAR

SEAWATCH RECYCLED WATER MAIN REHABILITATION CONSTRUCTION AWARD BACKGROUND:

General Manager Cook reported that a 10-inch Seawatch recycled water pipeline supplies the Crystal Cove development in Newport Beach. Mr. Cook said that a total of 17 leaks have been repaired on the pipeline since its installation in 2003 which have been determined to be crack-type failures occurring from the PVC pipe bells. He said that staff recommends the replacement of 4,500 feet of cured in place (CIPP) pipe and 140 feet of PVC pipe to rehabilitate the pipeline.

Executive Director of Engineering and Water Quality Burton reported that this project was advertised for construction bidding to a select list of 17 pipeline and CIPP specialty contractors. Mr. Burton said that five contractors attended the pre-bid meeting; the bid opening was held on February 27, 2018 with two bids received from Paulus Engineering and T.E. Roberts. He said that due to the specialized CIPP process of lining pressure pipelines, many contractors elected not to bid. He further said that T.E. Roberts is the apparent low bidder with a bid amount of \$1,071,100; the engineer's estimate was \$1,245,000.

Mr. Burton said that in the District's contract, General Provisions Section 6.6.2 states, "CONTRACTOR shall not award work to Subcontractors in excess of fifty (50) percent of the Contract Price without prior written approval of DISTRICT." He said that however, in the Statements by Bidder sections of the contract documents, both T.E. Roberts and Paulus Engineering noted that their CIPP subcontractors would perform more than 50% of the work. He said with the concurrence of legal counsel, staff recommends waiving this requirement and awarding the construction contract to T.E. Roberts.

On <u>MOTION</u> by Swan, seconded and carried (4-0) (Withers, Swan, Withers and Matheis voting aye and Reinhart absent), THE BOARD AUTHORIZED A BUDGET INCREASE IN THE AMOUNT OF \$640,000, FROM \$720,500 TO \$1,360,500, FOR PROJECT 07099; WAIVED THE REQUIREMENT THAT T.E. ROBERTS SHALL NOT AWARD WORK TO SUBCONTRACTORS IN EXCESS OF 50% OF THE CONTRACT PRICE WITHOUT PRIOR WRITTEN APPROVAL OF THE DISTRICT; AND AUTHORIZED THE GENERAL MANAGER TO EXECUTE A CONSTRUCTION CONTRACT WITH T.E. ROBERTS IN THE AMOUNT OF \$1,071,940 FOR THE SEAWATCH RECYCLED WATER MAIN REHABILITATION, PROJECT 07099.

WITHDRAWAL FROM SOUTH ORANGE COUNTY WASTEWATER AUTHORITY RECYCLED WATER MASTER PERMIT (PROJECT COMMITTEE 12)

The District's service area overlies portions of both the Santa Ana (Region 8) and San Diego (Region 9) Regional Water Quality Control Boards. South Orange County Wastewater Authority (SOCWA) currently administers the Recycled Water Master Permit for Region 9 for its member agencies. As of May 2018, IRWD's recycled water deliveries within the Region 9 boundary will be regulated under IRWD's existing Region 8 discharge order and IRWD will have no continuing financial obligations to SOCWA for recycled water permitting. Staff therefore recommends that the Board authorize the General Manager to notify SOCWA of its intent to withdraw from the Recycled Water Master Permit (Project Committee 12) effective July 1, 2018. On MOTION by Swan, seconded and carried (4-0) (Withers, Swan, LaMar, Withers and Matheis voting aye and Reinhart absent), THE BOARD AUTHORIZED THE GENERAL MANAGER TO NOTIFY THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY OF ITS INTENT TO WITHDRAW FROM THE RECYCLED WATER MASTER PERMIT (PROJECT COMMITTEE 12) EFFECTIVE JULY 1, 2018.

LANDSCAPE AND IRRIGATION CONTRACT TWO-YEAR CONTRACT EXTENSION

General Manager Cook reported that the landscape and irrigation contract for the District's properties expires on March 31, 2018 which allows for two one-year extensions at the discretion of the District. Since the scope of work for the 2015 contract was defined, the District has also added nine locations which require regular maintenance including: 1) San Joaquin Reservoir Standby House, 2) Peters Canyon Pump Station, 3) Bee Canyon Pump Station, 4) Hidden Hills Pump Station, 5) Cienega pilot site, 6) Baker Water Treatment Plant, 7) Bonita Canyon Pump Station, 8) Operation's monument signage area, and 9) Dyer Road Well No. 16. Director Withers said that this item was reviewed by the Engineering and Operations Committee on February 20, 2018, and the Committee concurs with the extension of the current contract. On MOTION by Swan, seconded and carried (4-0) (Withers, Swan, LaMar and Matheis voting aye and Reinhart absent), THE BOARD AUTHORIZED THE GENERAL MANAGER TO EXECUTE A TWO-YEAR CONTRACT EXTENSION WITH TROPICAL PLAZA NURSERY, INC. FOR A TOTAL OF \$985,856.28, EFFECTIVE APRIL 1, 2018.

SAN JOAQUIN MARSH AND NATURAL TREATMENT SYSTEM FACILITIES THREE-YEAR LANDSCAPE MAINTENANCE SERVICES CONTRACT

General Manager Cook reported that current operation and maintenance needs within the San Joaquin Marsh, San Joaquin Marsh Campus, Peters Canyon Water Capture and Reuse Pipeline (Peters Canyon), and Natural Treatment System (NTS) facilities require landscape maintenance contract services to control and remove native and non-native vegetation along with landscape

and irrigation maintenance. Mr. Cook said that the contract includes 10 new NTS sites that the District acquired since the previous contract of 32 sites encompassing a total area of 523 acres. He said that staff initiated the competitive bid process and based on the bids received, staff recommends that the Board authorize the General Manager to execute the landscape maintenance contract with LandCare for three years for the NTS and the San Joaquin Marsh, and with Habitat Restoration Sciences for Peters Canyon.

Director Withers said that this item was reviewed and approved by the Engineering and Operations Committee on February 20, 2018. On <u>MOTION</u> by Swan, seconded and carried (4-0) (Withers, Swan, LaMar and Matheis voting aye and Reinhart absent), THE BOARD AUTHORIZED THE GENERAL MANAGER TO EXECUTE A CONTRACT WITH LANDCARE IN THE AMOUNT OF \$2,616,874.33 AND WITH HABITAT RESTORATION SCIENCES IN THE AMOUNT OF \$42,792 FOR LANDSCAPE MAINTENANCE CONTRACT SERVICES FOR A THREE-YEAR TERM.

<u>CALIFORNIA WATERFIX PARTICIPATION THROUGH DUDLEY RIDGE WATER DISTRICT</u>

General Manager Cook reported that IRWD owns approximately 883 acres of land within Dudley Ridge Water District (DRWD). Associated with this land, IRWD has the right to the use of 1,748 acre-feet per year (AFY) of State Water Project (SWP) Table A water. DRWD has requested that its landowners make a selection of their desired level of participation in the proposed California WaterFix (WaterFix), which will upgrade infrastructure associated with the SWP. DRWD will use the selections made by its landowners to negotiate DRWD's multi-level participation in the project. Staff has prepared a hydrologic and economic analysis of the various options that are being offered to DRWD landowners for participation in the WaterFix. Using a PowerPoint presentation, Mr. Dane Johnson presented the results of the analysis for IRWD's participation in the WaterFix. He reviewed four options for participation, a description of the analysis performed, expected water supplies, expected cost of water, alternative cost comparison, and recommendations. President Reinhart arrived at 5:30 p.m.

Director Swan said that he and Director LaMar reviewed the item late last week, and recommended Option 3. On <u>MOTION</u> by Swan, seconded and unanimously carried, THE BOARD AUTHORIZED THE GENERAL MANAGER TO SUBMIT AN ELECTION TO FULLY PARTICIPATE IN THE CALIFORNIA WATERFIX THROUGH DUDLEY RIDGE WATER DISTRICT AT THE 100% LEVEL, WHICH WILL BE SUBJECT TO CHANGE BY IRWD AT A LATER DATE BASED ON NEW SUBSTANTIVE INFORMATION.

GENERAL COUNSEL REQUEST FOR MUTUAL SEPARATION

General Manager Cook reported that on March 6, 2018, IRWD General Counsel Nossaman sent a letter to the IRWD Board and staff suggesting withdrawal from its representation of IRWD as General Counsel. Mr. Cook said that this letter also outlined a number of "transitional items" as the District moves to new legal counsel. He said that Nossaman has offered to work with IRWD staff during this transition to address these items. The Professional Services Agreement between IRWD and Nossaman includes a 10-day notification to end this agreement. On MOTION by Swan, seconded and unanimously carried, THE BOARD ACCEPTED NOSSAMAN LLP'S OFFER FOR MUTUAL SEPARATION, WITH SEPARATION EFFECTIVE MARCH 23, 2018.

OTHER BUSINESS

GENERAL MANAGER'S REPORT

General Manager Cook reported that the permit amendment for MWRP is moving forward as planned.

Mr. Cook said that the agreement with the City of Newport Beach relative to the diversion of recycled water to the San Diego Creek watershed was executed. He thanked both Ms. Lyndy Lewis and Mr. Ian Swift for their efforts.

Mr. Cook said that Ms. Leslie Bonkowski celebrated her 40th anniversary at the District last week.

DIRECTORS' COMMENTS

Director Matheis reported on her attendance at an ACWA Summit in Sacramento and a Public Policy group meeting.

Director Withers reported on his attendance at an ISDOC Quarterly luncheon meeting with Director Matheis where they discussed Special District funding. He said he also attended an OCSD Committee meeting, and last Friday, a Federal Affairs meeting at MWD. He reported that tomorrow he will be attending an OCSD Legislative and Public Affairs Committee meeting, and this Thursday, a LAFCO Commissioners' meeting.

Director Swan reported on his attendance at an OCWD Board meeting and Committee meeting, an ACWA energy meeting in Sacramento, an ACC-OC Chapter meeting, a meeting he and Director Reinhart attended with MNWD, and a CASA and ACWA conference in Washington, DC. He noted the passing of Mr. Bill Steele, a former employee of the Bureau of Reclamation, and asked that the Board meeting be adjourned in his memory.

Director Reinhart reported on his attendance at SOCWA meetings, a South County meeting, and MWDOC meetings.

DIRECTORS' COMMENTS (CONTINUED)

Director LaMar reported on his attendance at an ACWA conference in Washington, DC and an ACWA Board Strategic Planning Session.

CLOSED SESSION

Vice President LaMar said the following Closed Sessions will be held this evening:

CONFERENCE WITH LEGAL COUNSEL—ANTICIPATED LITIGATION - Significant exposure to litigation pursuant to Government Code Section 54956.9(d)(2). (One (1) potential case);

PUBLIC EMPLOYEE PERFORMANCE EVALUATION — Pursuant to Government Code Section 54957(b)

Title: Legal Counsel;

PUBLIC EMPLOYEE DISCIPLINE/DISMISSAL/RELEASE — Pursuant to Government Code Section 54957(b); and

PUBLIC EMPLOYEE APPOINTMENT — Pursuant to Government Code Section 54957(b)

Title: Legal Counsel

OPEN SESSION

Following the Closed Session, the meeting was reconvened with three Directors present. Vice President LaMar said that relative to CONFERENCE WITH LEGAL COUNSEL - ANTICIPATED LITIGATION - Significant exposure to litigation pursuant to Government Code Section 54956.9(d)(2). (One (1) potential case), there was no action to report.

Vice President LaMar said that relative to PUBLIC EMPLOYEE PERFORMANCE EVALUATION - Pursuant to Government Code Section 54957(b) Title: Legal Counsel, there was no action to report.

Vice President LaMar said that relative to PUBLIC EMPLOYEE DISCIPLINE/DISMISSAL/RELEASE - Pursuant to Government Code Section 54957(b), there was no action to report.

Vice President LaMar said that a Closed Session was held relative to PUBLIC EMPLOYEE APPOINTMENT pursuant to Government Code Section 54957(b) Title: Legal Counsel. He said that by a <u>MOTION</u> by Swan, seconded by LaMar, and carried (Swan, LaMar, Matheis, and Reinhart voting aye and Withers voting no (4-1), THE FIRM OF LEWIS BRISBOIS WAS APPOINTED AS GENERAL COUNSEL FOR THE IRVINE RANCH WATER DISTRICT EFFECTIVE MARCH 12, 2018.

ADJOURNMENT

Vice President LaMar adjourned the meeting in memory of Mr. Bill Steele, long-time former employee of the Bureau of Reclamation.

APPROVED and SIGNED this 26th day of March, 2018.

Secretary IRVINE RANCH WATER DISTRICT ROVED AS TO FORM:		President, IRVINE RANCH WATER DISTRICT
	PROVED AS TO FORM:	Secretary IRVINE RANCH WATER DISTRICT

March 26, 2018

Prepared by: H. Cho/M. Cortez Submitted by: K. Burton KLA

Approved by: Paul A. Cook / Cov

CONSENT CALENDAR

UC IRVINE COOLING TOWER RECYCLED WATER CONVERSION PIPELINE PHASE II BUDGET INCREASE AND CONTRACT CHANGE ORDER

SUMMARY:

The UC Irvine Cooling Tower Recycled Water Conversion Pipeline Phase II project will construct approximately 3,000 feet of 12- and 16-inch recycled water pipeline from the intersection of University Drive and California Avenue to Mesa Road. The project encountered significant challenges during construction including unknown utility conflicts and extremely hard soil conditions causing major changes. Staff recommends that the Board:

- Authorize a budget increase in the amount of \$357,000, from \$1,102,500 to \$1,459,500, for project 07101, and in the amount of \$110,000, from \$738,100 to \$848,100, for project 07102, and
- Authorize the General Manager to execute Contract Change Order (CCO) No. 2 with Sully-Miller Contracting Company in the amount of \$237,088.70 for the UCI Cooling Tower Recycled Water Conversion Pipeline Phase II project.

BACKGROUND:

The UCI Cooling Tower Conversion Recycled Water Pipeline Phase II project will construct approximately 3,000 feet of 12- and 16-inch pipe to convert the water supply of the UCI Cooling Tower system from domestic to recycled water, as well as provide recycled water to the planned growth in the University Research Park area. The conversion of the cooling tower will save up to 50 million gallons of domestic water annually. This pipeline will connect to an existing 16-inch pipe in California Avenue just south of the street intersection with University Drive. The District awarded the construction contract to Sully-Miller Contracting Company on September 11, 2017 and the pipeline is currently under construction. The project site is shown in Exhibit "A".

Contract Change Order:

During pipe installation activities, Sully-Miller encountered incorrectly marked and unknown utilities that belonged to UC Irvine in the intersection of Academy Way and Peltason Drive. The utilities conflicted with the designed pipeline alignment and include three electrical concrete encased duct banks, a 12-inch water pipe, a 6-inch gas main, and a 15-inch sewer. The proposed recycled water pipeline was required to cross each of these utilities in succession. During trench excavation, the center electrical duct bank was found to be five feet wide and over 64 inches tall, not three feet wide by 36 inches tall as the other two electrical duct banks. Vertically, the top of the large duct bank is only 18 inches below finished pavement surface and the bottom is roughly seven feet below grade; the 15-inch sewer is located approximately 18 inches below the large

Consent Calendar: UC Irvine Cooling Tower Recycled Water Conversion Pipeline Phase II

Budget Increase and Contract Change Order

March 26, 2018

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duct bank. Due to the series of utilities and the lowest utility (15-inch sewer) being over 12 feet below ground, the pipeline cannot be safely constructed by the open trench method in the design alignment.

To verify an alternative pipeline alignment, staff directed Sully-Miller to complete potholes in the intersection. Sully-Miller encountered a large concrete structure just below the surface of the asphalt, which appeared to be covering the numerous utilities in the intersection. A fourth electrical duct bank was also in the vicinity. Consequently, staff asked Sully-Miller to provide a proposal to install the pipeline via jack and bore method beneath the existing utilities. Staff negotiated a cost of \$70,980 for the bore and pipe-jacking portion of the work, while the excavation and backfilling of the boring and receiving pits would be performed on a time and materials basis. CCO No. 2 also includes additional construction work as described in the staff report shown in Exhibit "B". Staff recommends the approval of CCO No. 2 in the amount of \$237,088.70 with Sully-Miller, which is attached as Exhibit "C". Due to the size and depth of the bore pit, UC Irvine is requiring the work to be performed during spring break, March 24 to April 1. UC Irvine will also allow the full closure of the street intersection to traffic for bore and jack construction activities. Staff anticipates that construction of the entire project will be completed by April 25.

FISCAL IMPACTS:

Projects 07101 and 07102 are included in the FY 2017-18 Capital Budget. A budget increase is required to fund the construction and engineering support services for the project as shown in the table below.

Project	Current Budget	Addition	Total
No.		<reduction></reduction>	Budget
07101	\$1,102,500	\$357,000	\$1,459,500
07102	\$738,100	\$110,000	\$848,100
Total	\$1,840,600	\$467,000	\$2,307,600

ENVIRONMENTAL COMPLIANCE:

This project is subject to the California Environmental Quality Act (CEQA) and in conformance with the California Code of Regulations Title 14, Chapter 3, Article 7, Section 15303, which states new, small facilities or structures; installation of small new equipment and facilities in small structures; water main, sewage, electrical, gas and other utility extensions, including street improvements of reasonable length to serve such construction, are exempt. As the lead agency, UC Irvine filed a Notice of Exemption with the California State Clearinghouse on February 17, 2017.

Consent Calendar: UC Irvine Cooling Tower Recycled Water Conversion Pipeline Phase II

Budget Increase and Contract Change Order

March 26, 2018

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COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on March 20, 2018.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE A BUDGET INCREASE IN THE AMOUNT OF \$357,000, FROM \$1,102,500 TO \$1,459,500, FOR PROJECT 07101, AND IN THE AMOUNT OF \$110,000, FROM \$738,100 TO \$848,100, FOR PROJECT 07102; AND AUTHORIZE THE GENERAL MANAGER TO EXECUTE CONTRACT CHANGE ORDER NO. 2 WITH SULLY-MILLER CONTRACTING COMPANY IN THE AMOUNT OF \$237,088.70 FOR THE UC IRVINE COOLING TOWER RECYCLED WATER CONVERSION PIPELINE PHASE II, PROJECTS 07101 AND 07102.

LIST OF EXHIBITS:

Exhibit "A" - Location Map

Exhibit "B" - Staff Report

Exhibit "C" - Contract Change Order No. 2

EXHIBIT "A"

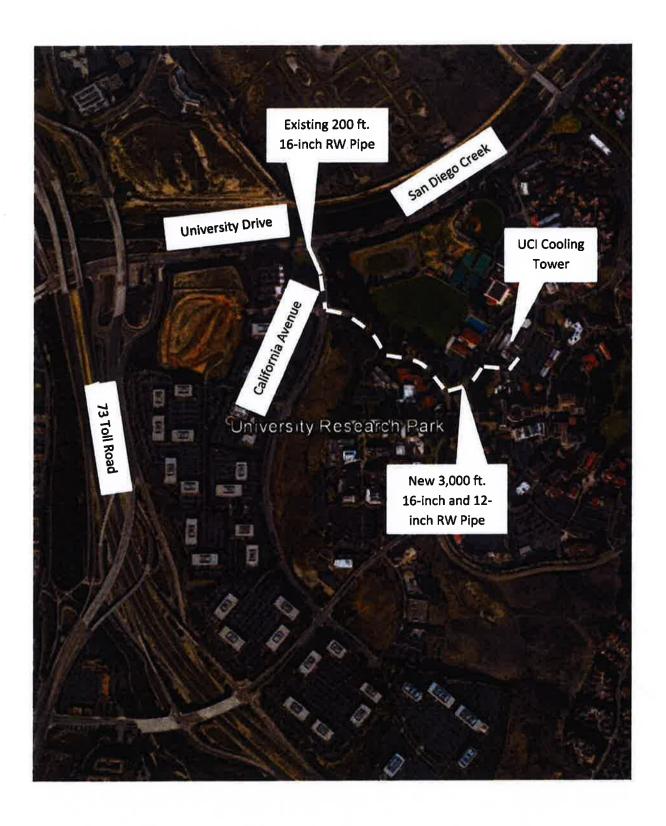


EXHIBIT "B"

Staff Report For UC Irvine Cooling Tower Recycled Water Conversion Pipeline Phase II Contract Change Order No. 2

March 20, 2018

This staff report summarizes Sully-Miller Contracting Company Contract Change Order No. 2 documenting the work added and deleted to the project scope of work. Contract Change Order No. 2 includes the following items:

- 1. Repair of UCI's 12-inch Domestic Water Pipe and Additional Potholing: UCI's 12-inch domestic water pipe in Peltason Drive was hit during pipeline installation because the pipeline was mismarked nine feet from its actual location by UCI's utility locator. The cost to repair the pipe is \$16,558. Due to uncertainty of the USA markings in Peltason, staff asked the contractor to pothole the utility crossings on Peltason Drive near the walking path to Mesa Road. After the many utilities were encountered at the intersection of Peltason and Academy, staff asked the contractor to pothole further into the intersection to see if there is a better pipeline alignment, but there was not. Each night of potholing was \$8,078. The total cost of the additional work is \$32,714. The additional time required for the work is three calendar days. During project planning, IRWD and UCI agreed that IRWD will pay for the cost of the pipeline to the Cooling Tower connection points and UCI will pay for the cost of the on-site conversion to recycled water. After the unknown utilities were encountered, IRWD and UCI met to review the utilities and costs for repair and re-routing the pipe, and both parties agreed that IRWD will pay for the cost of the pipeline.
- 2. Bore and Jack at the Intersection of Peltason and Academy: A 65-foot bore and jack pipeline installation is required due to the many conflicting utilities in the pipeline alignment and the 15-foot depth of the proposed pipeline. The carrier pipe is 12-inch PVC C900, and the casing pipe is 20-inch steel. UCI is requiring the work to be performed during its spring break, March 24 to April 30; UCI will also allow the full closure of the street intersection to traffic for bore and jack construction activities. Staff negotiated a cost of \$70,980 for the bore and jack. This price excludes the cost of excavating and backfilling the bore and receiving pits, which will be completed on a time and materials basis and included in the project's final CCO. The additional time required for the work is seven calendar days.
- 3. Additional Work in Peltason Drive Due to Hard Soil Conditions and Conflicting Utilities: Sully-Miller encountered hard soil and rock conditions in Peltason Drive, which slowed production down to 20 feet of pipe per day. Work on the street was extended by two weeks. In addition, the original pipeline alignment required re-routing due to the conflicting utilities. Additional work was required to sawcut and grind the asphalt for the new pipe alignment when the utility conflicts were encountered. The additional cost is \$69,998.78. The additional time required for the work is 10 calendar days.

Staff Report For UC Irvine Cooling Tower Recycled Water Conversion Pipeline Phase II Contract Change Order No. 2 March 20, 2018 Page 2

- 4. Two 11-degree Bends on Pipe Alignment in California: The addition of two 11-1/4-degree bends were required and installed on the 16-inch pipe in California. The additional cost was \$2,860.00. No additional work days are required for this item.
- 5. Two 45-degree Bends on Pipe Alignment in Peltason: Two 45-degree bends were installed on the 12-inch pipe in Peltason due to utility conflicts. The additional cost was \$3,515. No additional work days are required for this item.
- 6. <u>8-inch Cooling Tower Connection Pipe Extension</u>: The pipe connection to the UCI Cooling Tower at Station 45+48 was extended 25 feet to the chain link fence. The unit price is the bid price of \$332/foot. The additional cost was \$8,300. The additional work time required for the work is two calendar days.
- 7. Additional Hard Soil Conditions on February 11, 2018: Hard soil conditions were encountered on February 11, 2018 slowing production down to 40 feet of pipe installed per day. The additional cost was \$6,118.92. One additional work day was required for this item.
- 8. Additional Pipe Installation Costs in California: Additional work was required to reinstall the 16-inch PVC pipe in California. The pipe was installed with the pipe joints inserted past the over insertion line on the pipe. The inspector did not report this until after the pipe was backfilled. The contractor agreed to excavate the pipe and correct the pipe installation. The contractor estimated three weeks of additional work to complete the correction which is estimated to cost approximately \$150,000. Staff agreed to a cost sharing with IRWD contributing \$42,602 to complete the work. Fifteen additional work days were required for this item.

The total amount of Contract Change Order No. 2 is \$237,088.70. The total additional work time required is 38 calendar days revising the project completion date from March 8, 2018 to April 15, 2018.

CONTRACT CHANGE ORDER

EXHIBIT "C"



Irvine Ranch Water District 15600 Sand Canyon Avenue

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

C.O. No.	2
Final	7/

(949) 453-5300		Project No. 07101 & 07102					
UCI Cooling Tower RW Conversion Pipeline Pha	se 2						
Project Title			Date: March 13.	2018			
THE FOLLOWING CHANGE TO CONTRACT, SPECIFICATIONS IS PROPOSED.	DRAWINGS AND	\$ ADDITIONS	\$ DELETIONS	DAYS ±			
 See attached staff report for additional was 2. Non-compensatory contract time extension 1/8/18, 1/9/18, 2/12/18 	\$237,088.70 \$-0-	\$-0- \$-0-	38				
Project completion date is revised from March 8, 2	2018 to April 15, 2018.						
	TOTAL	\$237,088.70	\$-0-	41			
				DAYS ±			
1. NET AMOUNT THIS CHANGE ORDER	=		\$237,088.70	41			
2. ORIGINAL CONTRACT AMOUNT	(m)		\$1,117,500.00	150			
3. TOTAL PREVIOUS CHANGE ORDER(S)	=		\$66,675.97	14			
4. TOTAL BEFORE THIS CHANGE ORDER (2	+ 3) =		\$1,184,175.97	164			
5. PROPOSED REVISED CONTRACT AMOUN	IT TO DATE (1+4) =		\$1,421,264.67	205			
We hereby agree to make the above change subject Two Hundred Thirty Seven Thousand Eighty Eight Date Contractor				Dollars			
SIGNATURE	DATE	APPROVAL LEVEL REQUIRED					
IRWD Engineer or Consulting Engineer	Date	Department Director Executive Director General Manager					
Principal Engineer	Date	Board Approval R					
Executive Director of Engineering & Water Quality	Date						
General Manager	Date	Pı	urchase Order No.				

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

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

March 26, 2018

Prepared by: J. Davis/T. Fournier

Submitted by: R. Jacobson/C. Clary

Approved by: Paul A. Cook

CONSENT CALENDAR

FEBRUARY 2018 TREASURY REPORTS

SUMMARY:

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

- A. The Investment Summary Report for February 2018. This Investment Summary Report is in conformity with the 2018 Investment Policy and provides sufficient liquidity to meet estimated expenditures during the next six months, as outlined in Exhibit "A".
- B. The Summary of Fixed and Variable Debt as of February 28, 2018, as outlined in Exhibit "B".
- C. The Monthly Interest Rate Swap Summary as of February 28, 2018, as outlined in Exhibit "C".
- D. The February 28, 2018 Disbursement Summary of warrants 384168 through 385061, wire transfers, Workers' Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$20,760,983 as outlined in Exhibit "D".
- E. The Summary of Payroll ACH payments in the total amount of \$1,816,518, as outlined in Exhibit "E".
- F. The Disclosure Report of Reimbursements to Board Members and Staff for February 2018, detailing payments or reimbursements for individual charges of \$100.00 or more per transaction, as outlined in Exhibit "F".

FISCAL IMPACTS:

As of February 28, 2018, the book value of the investment portfolio was \$380,122,168, with a 1.24% rate of return and a market value of \$376,809,083. Based on the District's December 31, 2017 quarterly real estate investment rate of return of 8.49%, the weighted average return for the fixed income and real estate investments was 3.31%.

As of February 28, 2018, the outstanding principal amount of fixed and variable rate debt was \$684,735,000. The monthly weighted average all-in variable rate was 1.20%. Including the District's weighted average fixed rate bond issues of 3.70% and the previous month's negative cash accruals from fixed payer interest rate swaps, which hedge a portion of the District's variable rate debt, the total average debt rate was 3.55%.

Consent Calendar: February 2018 Treasury Reports

March 26, 2018

Page 2

As of February 28, 2018, the total notional amount of the interest rate swap portfolio was \$130 million of fixed payer swaps. Cash accrual in February from all swaps was negative \$421,066.

Payroll ACH payments totaled \$1,816,518, and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, and water purchases for February totaled \$20,760,983.

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

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

RECOMMENDATION:

THAT THE BOARD RECEIVE AND FILE THE TREASURER'S INVESTMENT SUMMARY REPORT, THE SUMMARY OF FIXED AND VARIABLE RATE DEBT, THE MONTHLY INTEREST RATE SWAP SUMMARY FOR FEBRUARY 2018, AND DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF; APPROVE THE FEBRUARY 2018 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$1,816,518 AND APPROVE THE FEBRUARY 2018 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 384168 THROUGH 385061 WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$20,760,983.

LIST OF EXHIBITS:

Exhibit "A" – Investment Summary Report

Exhibit "B" - Summary of Fixed and Variable Debt

Exhibit "C" – Monthly Interest Rate Swap Summary

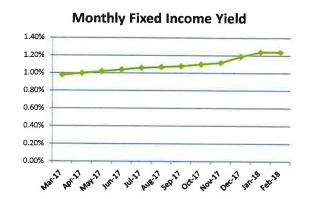
Exhibit "D" – Monthly Summary of District Disbursements

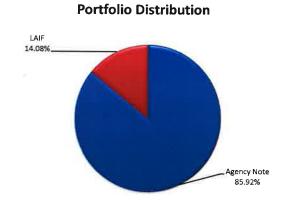
Exhibit "E" – Monthly Payroll ACH Summary

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

Exhibit "A"

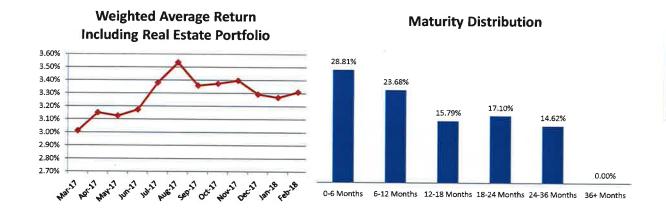
Irvine Ranch Water District Investment Portfolio Summary February 2018





Investment Summary

Type	PAR	Book Value	Market Value
Agency Note	326,550,000	326,622,168	323,353,170
LAIF	53,500,000	53,500,000	53,455,913
Grand Total	380,050,000	380,122,168	376,809,083



Top Issuers

Issuer	PAR	% Portfolio
Fed Home Loan Bank	101,000,000	26.58%
Fed Natl Mortgage Assoc	80,550,000	21.19%
Fed Home Loan Mortgage Corp	80,000,000	21.05%
Fed Farm Credit Bank	65,000,000	17.10%
State of California Treasury - LAIF	53,500,000	14.08%
Grand Total	380,050,000	100%

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT

02/28/18

						02/20/16							
SETTLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE ⁽¹⁾ 2/28/2018	UNREALIZED ⁽² GAIN/(LOSS)
08/23/17			03/01/18		LAIF	State of California Tsy,	\$53,500,000		1.200%	\$53,500,000.00	\$53,500,000.00	53,455,913,38	(44,086.62
03/23/16	N/A	N/A	03/23/18	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1,100%	0.908%	5,019,000,00	5,000,572,60	4,999,100.00	(1,472.60
04/07/16	N/A	N/A	04/09/18	NA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.750%	0.790%	4,996,000.00	4,999,786,89	4,996,300.00	(3,486.89
05/16/16	N/A	N/A	05/16/18	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.750%	0.801%	4,995,000.00	4,999,479.45	4,990,950.00	(8,529.45
05/13/16	N/A	N/A	05/21/18	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.875%	0.768%	5,010,700.00	5,001,174.39	4,991,650.00	(9,524.39
05/24/16	N/A	N/A	06/08/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	11,000,000	1.250%	0.995%	11,056,540.00	11,007,513.37	10,984,050.00	(23,463.3
06/29/16	N/A	N/A	06/29/18	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	10,000,000	1.000%	0.679%	10,016,000.00	10,002,630.14	9,975,600.00	(27,030.14
09/01/16	N/A	N/A	07/27/18	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.750%	0.928%	4,983,250.00	4,996,427,95	4,978,750.00	(17,677.95
12/21/16	N/A	N/A	08/15/18	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1,000%	1.245%	4,980,000.00	4,994,451.83	4,979,850.00	(14,601.83
09/01/16	One Time	02/28/17	08/28/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.000%	1.000%	5,000,000.00	5,000,000.00	4,978,200.00	(21,800.00
09/01/16	NA	NA	09/14/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1,125%	0.916%	5,021,000.00	5,005,567.97	4,977,150.00	(28,417.97
12/28/16	NA	NA	09/14/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.125%	1.225%	4,991,500.00	4,997,320.80	4,977,150.00	(20,170.80
10/12/16	N/A	N/A	09/27/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	0.900%	0.952%	9,990,000.00	9,996,783.22	9,945,900.00	(50,883.22
10/12/16	N/A	N/A	09/28/18	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.880%	0.942%	4,994,000.00	4,998,064.25	4,970,750.00	(27,314.25
09/01/16	NA	NA	10/01/18	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.030%	0.925%	5,010,750.00	5,003,026,97	4,975,400.00	(27,626.9
10/12/16	N/A	N/A	10/12/18	Aaa/NR/NR	FFCB - Note	Fed Farm Credit Bank	10,000,000	1,000%	1.041%	9,992,000.00	9,997,315.07	9,937,100.00	(60,215.01
10/12/16	N/A	N/A	11/27/18	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	10,000,000	1.625%	0.956%	10,140,360.00	10,052,635.00	9,968,500.00	(84,135.00
12/21/16	N/A	N/A	12/05/18	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.100%	1.319%	4,978,900.00	5,031,528.06	4,968,750.00	(62,778.00
09/01/16	NA	NA	12/14/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.750%	0.941%	5,091,300.00	5,016,684.00	4,988,950.00	(27,734.00
12/27/16	NA	NA	12/14/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.750%	1.320%	5,041,536.20	4,991,755.04	4,988,950.00	(2,805.04
09/01/16	One Time	07/30/18	01/30/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.950%	1.009%	4,993,000.00	4,997,338,25	4,946,050.00	(51,288.2
10/26/16	One Time	07/30/18	01/30/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.950%	1.035%	4,990,500,00	4,996,078.09	4,946,050.00	(50,028.09
10/26/16	One Time	07/30/18	01/30/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.950%	1.040%	4,990,000.00	4,995,871.67	4,946,050.00	(49,821.67
10/12/16	Continuous after	02/12/18	02/12/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	1.050%	1.093%	9,990,000.00	9,995,685.81	9,886,000.00	(109,685.81
09/01/16	NA	NA	03/08/19	Aaa/AA+/AAA	FHLB - Note	Fed Home Loan Bank	5,000,000	1.500%	0.964%	5,066,500,00	5,026,947.71	4,968,200.00	(58,747.7)
10/12/16	N/A	N/A	03/29/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.050%	1.050%	4,999,950.00	4,999,977.00	4,942,650.00	(57,327.00
10/12/16	N/A	N/A	04/15/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	10,000,000	1.125%	0.992%	10,032,800.00	10,015,414.21	9,886,900.00	(128,514.2)
10/31/16	N/A	N/A	04/26/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.050%	1.060%	4,998,750.00	4,999,418.41	4,937,200.00	(62,218.4)
09/01/16	One Time	08/28/17	05/28/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.030%	1.048%	4,997,550.00	4,998,889.04	4,930,650.00	(68,239.04
09/01/16	NA	NA	06/14/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.625%	0.987%	5,087,400.00	5,040,431.10	4,964,100.00	(76,331.10
10/12/16	NA	NA	06/14/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1,625%	1.103%	5,068,515.88	5,034,433.62	4,964,100.00	(70,333.62
10/12/16	NA	NA	07/19/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.875%	1.098%	4,969,652.90	4,984,225.52	4,909,750.00	(74,475.52
09/01/16	NA	NA	07/26/19	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.150%	1.180%	4,995,700.00	4,997,919.09	4,927,350.00	(70,569.09
09/01/16	One Time	08/28/17	08/28/19	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.150%	1.160%	4,998,500.00	4,999,250.69	4,922,000.00	(77,250.69
09/01/16	NA	NA	08/28/19	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.125%	1.132%	4,999,000.00	4,999,500.46	4,916,850.00	(82,650.46
09/28/16	Quarterly	03/09/17	09/09/19	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.125%	1.142%	4,997,500.00	4,998,702.50	4,912,350.00	(86,352,50
09/28/16	Continuous after	12/27/16	09/27/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.250%	1.189%	5,001,500.00	5,000,788.39	4,918,150.00	(82,638.39
10/12/16	Continuous after	10/03/17	10/03/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	1.125%	1.160%	9,989,780.00	9,994,344,18	9,820,700.00	(173,644.18
10/12/16	Continuous after	10/11/17	10/11/19	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	10,000,000	1.120%	1.205%	9,975,000.00	9,986,083.18	9,812,300.00	(173,783.18

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT

02/28/18

SETTLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE ⁽¹⁾ 2/28/2018	UNREALIZED ⁽²⁾ GAIN/(LOSS)
11/08/16	Quarterly	05/08/17	11/08/19	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.250%	1.245%	5,000,750.00	5,000,422.60	4,905,650,00	(94,772,60)
11/28/16	NA	NA	11/15/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.375%	1.440%	4,990,550.00	4,994,550.09	4,928,050.00	(66,500.09)
11/28/16	Quarterly	05/25/17	11/25/19	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.400%	1.503%	4,985,000.00	4,991,291,21	4,919,450.00	(71,841,21)
12/12/16	NA	NA	12/12/19	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.450%	1.440%	5,001,450,00	5,000,861,52	4,926,800.00	(74,061,52)
12/21/16	NA	NA	12/19/19	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.500%	1.621%	4,982,350.00	4,989,374.47	4,931,550.00	(57,824.47)
12/20/17	NA	NA	01/17/20	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.500%	1,932%	4,956,250.00	4,957,866.09	4,929,350,00	(28,516,09)
10/16/17	NA	NA	02/28/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.500%	1.612%	4,987,025.00	4,989,065,00	4,918,800.00	(70,265.00)
12/20/17	NA	NA	03/13/20	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	4.125%	1.940%	5,237,200,00	5,229,040,79	5,173,550.00	(55,490.79)
10/03/17	NA	NA	04/20/20	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.375%	1.630%	4,968,350.00	4,973,420.81	4,902,850.00	(70,570.81)
11/21/17	Continuous after	02/20/18	05/20/20	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.830%	1.930%	4,987,500.00	4,971,350.79	4,945,000.00	(26,350.79)
11/10/17	NA	NA	06/22/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1,500%	1.750%	4,968,000,00	4,989,023.05	4,909,050.00	(79,973.05)
12/20/17	Quarterly	11/10/16	08/10/20	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.450%	2.052%	4,923,000.00	4,925,236.51	4,881,350.00	(43,886.51)
12/12/17	One Time	09/28/18	09/28/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	2.000%	2,000%	5,000,000,00	5,000,000.00	4,940,950.00	(59,050.00)
10/31/17	One Time	10/30/18	10/30/20	Aaa/NR/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,550,000	1.850%	1.850%	5,550,000.00	5,550,000.00	5,452,320.00	(97,680.00)
12/13/17	Continuous after	08/23/17	11/23/20	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.770%	2.060%	4,958,750.00	4,959,823,42	4,896,800.00	
12/13/17	Quarterly	05/24/18	11/24/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.900%	2.023%	4,982,500.00	4,982,954,97	4,918,950.00	(63,023,42)
11/30/17	NA	NA	11/24/20	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.850%	1.964%	4,983,550.00	4,984,923,35	4,917,850.00	(64,004,97)
12/20/17	NA	NA	12/28/20	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.875%	2.023%	4,978,400.00	4,978,947.83	4,924,400.00	(67,073.35) (54,547.83)
SUB-TOTAL							\$380,050,000			\$380,390,059.98	\$380,122,168.42	£274 800 002 20	(62.212.005.44)
							3580,050,000			3380,390,039.98	\$380,122,108.42	\$376,809,083.38	(\$3,313,085.04)
											×	-	
					Petty Cash					3,400.00			
					Ck Balance	Bank of America				(1,648,170.42)			
										\$378,745,289.56			

AIF market value is as of the most recent quarter-end as reported by LAIF. Courity market values are determined using Bank of New York ("Trading Prices"), Bloomberg and/or broker dealer pricing.	Outstanding Variable Rate Debt Net Outstanding Variable Rate Debt (L Investment Balance:	ess \$130 mil	llion fixed-payer	swaps)	\$284,200,000 \$154,200,000 \$378,745,290
Gain (loss) calculated against carry value using the trading value provided by Bank of New York/or Brokers	Investment to Variable Rate Debt Ratio				246%
Real estate rate of return is based on most recent quarter end return	Portfolio - Average Number of Days T	222			391
		I	Investment	Real Estate ⁽³⁾	Weighted Avg.
			Portfolio	Portfolio	Return
his Investment Summer, Bernaria in an Garia and Garia	Fel	гиагу	1.24%	8.49%	3,31%
his Investment Summary Report is in conformity with the 2018 Investment Policy nd provides sufficient liquidity to meet the next six months estimated expenditures. S - Step up		nuary hange	1.24%	8.49%	3.28% 0.03%

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT INVESTMENT ACTIVITY Feb-18

MATURITIES/SALES/CALLS

PURCHASES

DATE	SECURITY TYPE	PAR	YIELD	Settlement Date	Maturity Date	SECURITY TYPE	PAR	YIELD TO MATURITY
2/26/2018	FHLMC - NOTE	\$5,000,000	1.05%					-
1								
				U.				

IRVINE RANCH WATER DISTRICT SUMMARY OF MATURITIES

02/28/18

DATE	TOTAL	%	LAIF	Agency Notes	Agency Discount Notes	Collateral Deposit	US Treasury
03/18	\$58,500,000	15.39%	\$53,500,000	5,000,000			
04/18	5,000,000	1.32%		5,000,000			
05/18	10,000,000	2.63%		10,000,000			
06/18	21,000,000	5.53%		21,000,000			
07/18	5,000,000	1.32%		5,000,000			
08/18	10,000,000	2.63%		10,000,000			
09/18	25,000,000	6.58%		25,000,000			
10/18	15,000,000	3.95%		15,000,000			
11/18	10,000,000	2.63%		10,000,000			
12/18	15,000,000	3.95%		15,000,000			
01/19	15,000,000	3.95%		15,000,000			
02/19	10,000,000	2.63%		10,000,000			
SUB-TOTAL	\$199,500,000	52.49%	\$53,500,000	\$146,000,000			
13 Months - 3 YEARS							
3/01/19 - 5/31/2019	30,000,000	7.89%		30,000,000			
6/01/19 - 8/31/2019	30,000,000	7.89%		30,000,000			
9/01/2019 - 11/30/19	45,000,000	11.84%		45,000,000	*:		
12/01/19 - 2/28/2020	20,000,000	5.26%		20,000,000			
3/01/2020 - 5/31/2020	15,000,000	3.95%		15,000,000			
6/01/2020 - 8/31/2020	10,000,000	2.63%		10,000,000			
9/01/2020 -12/31/2020	30,550,000	8.04%		30,550,000			
1/01/2021 -2/28/2021							
	-						
TOTALS	\$380,050,000	100.00%	\$53,500,000	\$326,550,000			

% OF PORTFOLIO

14.08%

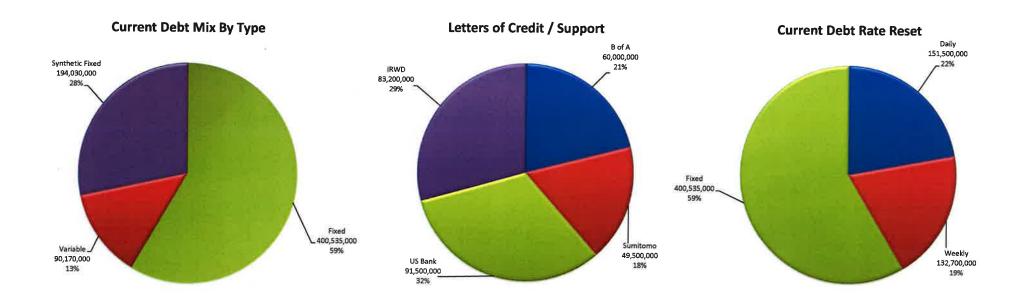
85.92%

Irvine Ranch Water District Summary of Real Estate - Income Producing Investments 12/31/2017

						1	ESTIMATED	ANNUALIZED RATE OF RETURN
	ACQUISITION	PROPERTY	OWNERSHIP		ORIGINAL		ARKET VALUE	QUARTER ENDED
	DATE	TYPE	INTEREST	-	COST		12/31/2017	12/31/2017
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$	43,550,810	\$	147,507,750	17.78%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$	6,000,000	\$	28,934,076	8.56%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$	5,739,845	\$	9,571,680	5.78%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$	8,630,577	\$	7,803,000	5.41%
Sand Canyon Professional Center	Jul-12	Medical Office	Fee Simple	\$	8,648,594	\$	10,820,160	8.88%
Total - Income Properties				\$	72,569,826	\$	204,636,666	13.54%
OTHER REAL ESTATE DESCRIPTION								
Serrano Summit - Promissory Note	Sep-17	NA	NA	\$	81,600,000	\$	81,600,000	4.00%
Total - Income Producing Real Estate I	nvestments			\$	154,169,826	\$	286,236,666	8.49%

Exhibit "B"

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



		Outsta	nding Par by Se	ries				
Series	Issue Date	Maturity Date	Remaining Principal	Percent	Letter of Credit	Rmkt Agent	Mode	Reset
Series 1993	05/19/93	04/01/33	\$31,500,000	4.60%	US Bank	BAML	Variable	Daily
Series 2008-A Refunding	04/24/08	07/01/35	\$49,500,000	7.23%	Sumitomo	BAML	Variable	Weekly
Series 2011-A-1 Refunding	04/15/11	10/01/37	\$49,920,000	7.29%	IRWD	Goldman	Variable	Weekly
Series 2011-A-2 Refunding	04/15/11	10/01/37	\$33,280,000	4.86%	IRWD	Morgan	Variable	Weekly
Series 2009 - A	06/04/09	10/01/41	\$60,000,000	8.76%	US Bank	US Bank	Variable	Daily
Series 2009 - B	06/04/09	10/01/41	\$60,000,000	8.76%	B of A	Goldman	Variable	Daily
2010 Refunding Cops	02/23/10	03/01/20	\$5,390,000	0.79%	N/A	N/A	Fixed	Fixed
2016 COPS	09/01/16	03/01/46	\$116,745,000	17.05%	N/A	N/A	Fixed	Fixed
2010 Build America Taxable Bond	12/16/10	05/01/40	\$175,000,000	25.56%	N/A	N/A	Fixed	Fixed
Series 2016	10/12/16	02/01/46	\$103,400,000	15.10%	N/A	N/A	Fixed	Fixed
Total			\$684,735,000	100.00%	- 47'			1 INCO

IRVINE RANCH WATER DISTRICT

SUMMARY OF FIXED & VARIABLE RATE DEBT

February-18

Daily Weekly

	GE		ND INFORMAT						LI	ETTER OF CRE	DIT INFO	RMATION					TR	USTEE INFOR	MATION	
VARIABLE RATE ISSUES	Issue Date	Maturity Date	Principal Payment Date	Payment Date	Original Par Amount	Remaining Principal	Letter of Credit	Reimbursment Agreement Date		MOODYS	S&P	FITCH	LOC Stated Amount	LOC Fee	Annual LOC Cost	Rmkt Agent	Reset	Rmkt Fees	Annual	Trustee
SERIES 1993	05/19/93	04/01/33	APR 1 (2014)	5th Bus, Day	\$38,300,000	\$31,500,000	US BANK	05/07/15	11/07/18	Aa3/VMIG1	AA-/A-1+	N/R	\$31,924,603	0.3300%	\$105,351	BAML	DAILY	0.10%	\$31,500	BANK OF N
SERIES 2008-A Refunding	04/24/08	07/01/35	JUL1	5th Bus. Day	\$60,215,000	\$49,500,000	SUMITOMO	04/01/11	07/21/21	A1/P-1	A/A-1	A/F1	\$50,232,329	0.3150%	\$158,232	BAML	WED	0.07%	\$34.650	BANK OF N
SERIES 2011-A-1 Refunding	04/15/11	10/01/37	Oct 1	1st Bus. Day	\$60,545,000	\$49,920,000	N/A	N/A	N/A	Aa1/VMIG1	A-1+	AAA/F1+	N/A	N/A	N/A.	Goldman	WED		-	BANK OF N
SERIES 2011-A-2 Refunding	04/15/11	10/01/37	Oct 1	1st Bus, Day	\$40,370,000	\$33,280,000	N/A	N/A	N/A	Aa1/VMIG1	A-1+	AAA/F1+	N/A	N/A	N/A	Morgan S.	WED			BANK OF N
SERIES 2009 - A	06/04/09	10/01/41	Oct 1	1st Bus. Day	\$75,000,000	\$60,000,000	US BANK	04/01/11	12/22/20	Aa2/VMIG 1	AA-/A-1+	AA/F1+	\$60,670,685	0.4100%	\$248,750	US Bank		0.07%	\$42,000	
SERIES 2009 - B	06/04/09	10/01/41	Oct 1	1st Bus, Day	\$75,000,000	\$60,000,000	B of A	04/01/11	07/15/19	A1/VMIG 1			\$60,670,685			Goldman		0.10%	\$60,000	US BANK

FIXED RATE ISSUES					\$349,430,000	\$284,200,000	SUB-TOTAL	VARIABLE RA	TE DEBT				\$203,498,30	1 0.3711% (Wt. Avg)	\$755,016			0.10% (Wt. Avg)	\$272,15	<u>0</u>
2010 REFUNDING COPS	02/23/10	03/01/20	Mar -1	MAR/SEPT	\$85,145,000	\$5,390,000	N/A	N/A	T T		Τ			Т Т			Т		т	
2010 GO Build America Taxable Bonds	12/16/10		MAY (2025)			\$175,000,000	N/A	N/A	N/A N/A	Aa1 Aa1	AAA	AAA NR	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A	N/A	BANK OF NY
2016 COPS	09/01/16	03/01/46	Mar - 1	MAR/SEPT	\$116,745,000	\$116,745,000	N/A	N/A	N/A	NR	AAA	AAA	N/A	N/A	N/A	N/A	N/A N/A	N/A N/A	N/A N/A	US BANK
SERIES 2016	10/12/16	02/01/46	Feb - 1	FEB/AUG	\$103,400,000	\$103,400,000	N/A	N/A	N/A	NR	AAA	AAA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	BANK OF NY

\$480,290,000 \$400,535,000 SUB-TOTAL FIXED RATE DEBT

\$829,720,000 \$684,735,000 TOTAL- FIXED & VARIABLE RATE DEBT

Remarke	ting Agents			GO VS COP's	
Goldman Morgan Stanley BAML US Bank	109,920,000 33,280,000 81,000,000 60,000,000 284,200,000	39% 12% 29% 21%	GO: COPS: Total	562,600,000 122,135,000 684,735,000	82% 18%

LOC E	Banks	Breakdown Betwe	een Variable & Fixed R	ate Mode
SUMITOMO BANK OF AMERICA US BANK	49,500,000 60,000,000 91,500,000 201,000,000	Daily Issues Weekly Issues ITN Issues Sub-Total	151,500,000 49,500,000 83,200,000 284,200,000	22% 7% 12%
		Fixed Rate Issues Sub-Total - Fixed TOTAL DEBT FIXED & VAR	\$400,535,000 400,535,000 684,735,000	58%

IRVINE RANCH WATER DISTRICT SUMMARY OF DEBT RATES Feb-18

Rmkt Agent	GOLDMAN	GOLDMAN	MORGAN STANLEY	MERRII	L LYNCH	US BANK
Mode	DAILY	WEEKLY	WEEKLY	DAILY	WEEKLY	DAILY
Bond Issue	2009 - B	2011 A-1	2011 A-2	1993	2008-A	2009-A
Par Amount	60,000,000	49,920,000	33,280,000	31,500,000	49,500,000	60,000,000
Bank	BOFA	(SIFMA+7) (SIFMA -1 on 02/08)	(SIFMA+7) (SIFMA -1 on 02/08)	US BANK	Sumitomo	US BANK
Reset		Wednesday	Wednesday		Wednesday	OO BANK
2/1/2018	0.66%	1.15%	1.15%	0.64%	0.96%	0.70%
2/2/2018	0.59%	1.15%	1.15%	0.59%	0.96%	0.66%
2/3/2018	0.59%	1.15%	1.15%	0.59%	0.96%	0.66%
2/4/2018	0.59%	1.15%	1.15%	0.59%	0.96%	0.66%
2/5/2018	0.54%	1.15%	1.15%	0.54%	0.96%	0.60%
2/6/2018	0.49%	1.15%	1.15%	0.52%	0.96%	0.52%
2/7/2018	0.46%	1.15%	1.15%	0.47%	0.96%	0.49%
2/8/2018	0.48%	0.97%	0.97%	0.52%	0.87%	0.49%
2/9/2018	0.53%	0.97%	0.97%	0.58%	0.87%	0.53%
2/10/2018	0.53%	0.97%	0.97%	0.58%	0.87%	0.53%
2/11/2018	0.53%	0.97%	0.97%	0.58%	0.87%	0.53%
2/12/2018	0.63%	0.97%	0.97%	0.60%	0.87%	0.60%
2/13/2018	0.67%	0.97%	0.97%	0.61%	0.87%	0.67%
2/14/2018	0.72%	0.97%	0.97%	0.65%	0.87%	0.72%
2/15/2018	0.76%	0.99%	0.99%	0.71%	0.89%	0.77%
2/16/2018	0.78%	0.99%	0.99%	0.71%	0.89%	0.79%
2/17/2018	0.78%	0.99%	0.99%	0.71%	0.89%	0.79%
2/18/2018	0.78%	0.99%	0.99%	0.71%	0.89%	0.79%
2/19/2018	0.78%	0.99%	0.99%	0.71%	0.89%	0.79%
2/20/2018	0.79%	0.99%	0.99%	0.77%	0.89%	0.81%
2/21/2018	0.81%	0.99%	0.99%	0.79%	0.89%	0.82%
2/22/2018	0.83%	1.08%	1.08%	0.79%	0.95%	0.85%
2/23/2018	0.85%	1.08%	1.08%	0.79%	0.95%	0.86%
2/24/2018	0.85%	1.08%	1.08%	0.79%	0.95%	0.86%
2/25/2018	0.85%	1.08%	1.08%	0.79%	0.95%	0.86%
2/26/2018	0.86%	1.08%	1.08%	0.80%	0.95%	0.86%
2/27/2018	0.83%	1.08%	1.08%	0.83%	0.95%	0.86%
2/28/2018	0.82%	1.08%	1.08%	0.83%	0.95%	0.86%
Avg Interest Rates	0.69%	1.05%	1.05%	0.67%	0.92%	0.71%
Rmkt Fee	0.10%	0.13%	0.13%	0.10%	0.92%	0.71%
LOC Fee	0.40%		311070	0.33%	0.32%	0.07%
All-In Rate	1.19%	1.17%	1.17%	1.10%	1.30%	1.20%
Par Amount		109,920,000	33,280,000	81,00		60,000,000

	Percent of	Par	Weighted All-In		Base Rate
Interest Rate Mode	Total Variable Rate Debt	Outstanding	Average Rate		Average
Daily	53.31%	151,500,000	1.17%	_	0.70%
Neekly	46.69%	132,700,000	1.22%		1.00%
Fixed	100.00%	\$ 284,200,000	1.20%		0.84%
COPS 2010	1.35%	5,390,000	3.82%		
COPS 2016	29.15%	116,745,000	2.90%		
3ABS 2010	43.69%	175,000,000	4.46%	(1)	
SERIES 2016	25.82%	103,400,000	3.32%		
	100.00%	\$ 400.535,000	3.70%		

⁽¹⁾ Rate adjusted up from 4,35% as a result of sequestration reducing BAB's subsidy by 6,8%

IRVINE RANCH WATER DISTRICT INTEREST RATE SWAP MONTHLY SUMMARY REPORT - DETAIL February 28, 2018

Exhibit "C"

Prior Mo. | Current Mo. | 12-Mo Avg LIBOR Avg % 1.56% 1.60% 1.25%

		Cur	rent Fisca	l Ye	ar Active Swa	aps					Cash F	low	(Since 6/06)		Mark to	Mar	ket
Effective Date	Maturity Date	Years to Maturity	Counter Party	N-	otional Amt	Туре	Base Index	Fixed Rate	Pr	rior Month	Current Month	Fiscal YTD	Cumulative Cash Flow	Cu	ırrent Mark to Market		Notional Difference
F	ixed Payer	Swaps - I	By Effective	ve D	ate												
6/4/2006	6/4/2019	1.3	ML	\$	20,000,000	FXP	LIBOR	6.200%		(82,223)	(68,470)	\$ (641,062)	\$ (11,564,355)	\$	19,007,568	\$	(992,432)
6/4/2006	6/4/2019	1.3	CG		20,000,000	FXP	LIBOR	6.200%		(82,223)	(68,470)	(641,062)	(11,564,355)		19,008,277		(991,723)
6/17/2006	6/17/2019	1.3	CG		30,000,000	FXP	LIBOR	6.140%		(121,975)	(101,530)	(949,494)	(17,152,151)		28,496,840		(1,503,160)
3/10/2007	3/10/2029	11.0	ML		30,000,000	FXP	LIBOR	5.687%		(110,144)	(91,298)	(860,422)	(15,466,229)		21,808,451		(8,191,549)
3/10/2007	3/10/2029	11.0	CG		30,000,000	FXP	LIBOR	5.687%		(110,144)	(91,298)	(860,422)	(15,466,229)		21,805,300		(8,194,700)
Totals/Weig	hted Avgs	5.8	. —	\$	130,000,000			5.949%	\$	(506,709) \$	(421,066)	\$ (3,952,461)	\$ (71,213,317)	\$	110,126,436	\$	(19,873,564)
Total Curr	ent Year																
Active Swa	aps			\$	130,000,000				\$	(506,709) \$	(421,066)	\$ (3,952,461)	\$ (71,213,317)	\$	110,126,436	\$	(19,873,564)

		Current F	iscal Y	ear Terminated	Swaps		
Effective Date	Maturity Date		ounter Party	Notional Amt	Туре	Base Index	Fixed Rate

	Cas	h Flow	
Prior	Current	Fiscal YTD	Cumulative
Month	Month		Cash Flow

Mark to Market **Current Mark to** Notional Market Difference

Total Current Year Terminated Swaps

\$

Current Fiscal Year - Total Swaps

Cash Flow Prior Current Cumulative

Fiscal YTD

Cash Flow

Mark to Market Current Mark to Notional Market Difference

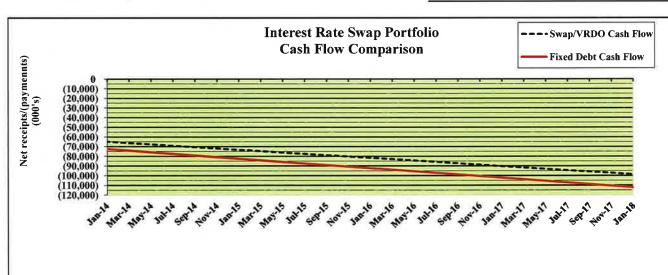
Total Current Year Active & Terminated Swaps

\$ 130,000,000

\$ (506,709) \$ (421,066) \$ (3,952,461) \$ (71,213,317) \$ 110,126,436 \$ (19,873,564)

Month

Month



Cash Flow Comparison Synthetic Fixed vs. Fixed Rate Debt

Cash Flow to Date

Synthetic Fixed = \$99,233,257

Fixed Rate = \$112,726,169

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 "D"

IRWD Ledger Upg	e Zero Amo	unt Payments: Yes ayee Address: No	Void Payme	ent Register Period From: 01-FEB-18	Report Date: 28-FEB Page: To: 28-FEB Date: Void D	-10
Bank: Bank of A	merica N.A	. Branch	h: Los Angeles	Account: Check	ing AP and PR	
Bank Account Cu	rrency: US	D	Payment	Currency: USD (US Dollar)		
Payment Number		_	Site	Address	Payment Amount	
Payment Do					***********	
380890 380902 380987 381004 381039 381200 381269 382714	05-OCT-17 05-OCT-17 05-OCT-17 05-OCT-17 19-OCT-17	CHUNG, MARK DAN FRANCES LEANO PARK, SOHYON SADRI, SAASAAN WHITE, STEPHEN Sheilds, Patrick GAINQUICK LLC CENTRAL COAST POWER SEI	PAY PAY PAY PAY PAY PAY HOME PAY RVICE TEMPLETON		26.45 12.69 1.15 15.70 6.00 74.82	05-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 05-FEB-18 20-FEB-18 15-FEB-18 05-FEB-18
				Payment Document Subtotal	1,821.81	
				Bank Account Subtotal	-,	
Report Co	ount: 8			Report Total		Voids

*** End of Report ***

RWD Ledger Upgrade Payment Register For 01-FEB-18 To 28-FEB-18 Report Date: 28-FEB-2018 13:47

BANK: Bank of America N.A. Branch: Los Angeles Account: Checking AP and PR Page: 1

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

Payment Document: IRMO CHECK 384166	Payment Docum				Date	Cleared Amount	Statu
394169	384168						
194199 1-FEB-16 File, Ethan O 280,00 6-FEB-18 280,00 Recomposition 195,00 Reco		01-FEE		27.30	05-FEB-18	27.30	Reconciled
394170	384169	01-FEE	3-18 Fike, Ethan O	280.00	06-FEB-18	280,00	Reconciled
394172			3-18 Gomez, Braulio		02-FEB-18	105.00	Reconciled Negotiable
Alleen	384172						Reconciled Reconciled
384175	384174		Aileen				Reconciled
Russell			3-18 Phuong, Sophia	111.33	06-FEB-18	111.33	Reconciled
384178			Russell				Reconciled
384197			-18 Silva, Jose A				Reconciled Reconciled
384180	384179	01-FEF		106.64	06-FEB-18	106.64	Reconciled
SERVICES INC SERVICES INC 1,7358.06 05-FEB-18 7,358.06 Record 384183 01-FEB-18 AFLAC 203.12 05-FEB-18 203.12 Record 384184 01-FEB-18 AFLAC 203.12 05-FEB-18 203.12 Record 384185 01-FEB-18 AFLAC 384186 01-FEB-18 AFLAC 384186 01-FEB-18 AFLAC 384186 01-FEB-18 AFLAC 384186 01-FEB-18 AFLAC 384187 384187 01-FEB-18 AFLAC 384187 384188 01-FEB-18 AFLAC 384189 01-FEB-18 ARCADIS U.S., INC. 81,502.96 09-FEB-18 81,502.96 Record 384191 01-FEB-18 ARCADIS U.S., INC. 81,502.96 09-FEB-18 81,502.96 Record 384192 01-FEB-18 ARCADIS U.S., INC. 81,502.96 09-FEB-18 81,502.96 Record 384193 01-FEB-18 ARCADIS U.S., INC. 81,502.96 09-FEB-18 81,502.96 Record 384193 01-FEB-18 ARCADIS U.S., INC. 81,502.96 09-FEB-18 81,502.96 Record 384193 01-FEB-18 ARCADIS U.S., INC. 81,502.96 09-FEB-18 81,502.96 Record 384193 01-FEB-18 ARCADIS U.S., INC. 81,502.96 09-FEB-18 81,502.96 Record 384193 01-FEB-18 ARCADIS U.S., INC. 81,502.96 09-FEB-18 81,502.96 Record 384193 01-FEB-18 ARCADIS U.S., INC. 81,502.96 09-FEB-18 81,502.96 Record 384193 01-FEB-18 ARCADIS U.S., INC. 81,502.96 09-FEB-18 81,502.96 Record 384193 01-FEB-18 ARCADIS U.S., INC. 81,502.96 09-FEB-18 81,502.96 Record 384193 01-FEB-18 ARCADIS U.S., INC. 81,502.96 09-FEB-18 25,139.55 Record 384194 01-FEB-18 ARCADIS U.S., INC. 81,502.96 09-FEB-18 27,139.55 Record 384194 01-FEB-18 ARCADIS U.S., INC. 81,502.96 09-FEB-18 81,602.96							Reconciled
384182	384181	01-FEE		412,47	07-FEB-18		Reconciled
394184	384182	01-FEF		7,358.06	05-FEB-18	7,358.06	Reconciled
SAME							Reconciled
384186	384184	01-FEE		503.00	09-FEB-18	503.00	Reconciled
384187							Reconciled Reconciled
Record R							
384199			-18 APEX LIFE				Reconciled Reconciled
384199	384189	01-FEE	-18 AQUA BEN	0,401.26	05-FEB-18	8,401.26	Reconciled
384191	384190	01-FEE	-18 AQUA-METRIC SALES	2,124.56	05-FEB-18	2,124.56	Reconciled
384192	384191	01-FEF		81,502,96	09-FEB-18	81,502,96	Reconciled
3841994	384192		-18 ARIZONA INSTRUMEN				Reconciled
384195							Reconciled
384196							
384197							
Sad198							Reconciled Reconciled
RWD Ledger Upgrade BANK: Bank of America N.A. Bank Account Currency: USD (US Dollar) Payment Type: All Bank Account Type: All Branch: Los Angeles Account: Checking AP and PR Page: 2 Payment Currency: USD (US Dollar) Payment Type: All Bisplay Supplier Address: No Cleared Amount Cleared Cleared Cleared Amount Payment Document: IRWD CHECK BILL'S SWEEPING INC. BILL'S SWEEPING SERVICE INC SERVICE INC BILL'S SWEEPING SERVICE INC BILL'S SWEEPING SERVICE INC SERVICE INC BILL'S SWEEPING SERVICE INC S	384198	01-FEF		25.139.55	07-FEB-18	25 139 55	Reconciled
Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar) Display Supplier Address: No	RWD Ledger Up	grade	Payment	Register For 01-FEB-18 To	28-FEB-18	Report Date: 28	-FEB-2018 13:
Payment Number Sequence Num Date Supplier Name Site Payment Amount Date Cleared Amount Payment Document: IRWD CHECK 384199	Bank Acco	ount Currency: USD (US Dollar)	Payment Curr	ency: USD (
Payment Document : IRWD CHECK 384199					Cleared		
Payment Document : IRWD CHECK 384199						Cleared Amount	Statu
INC. 384200 01-FEB-18 BILL'S SWEEPING SERVICE INC 384201 01-FEB-18 BIOMAGIC INC 16,357.26 06-FEB-18 16,357.26 Record 384202 01-FEB-18 BIOMERIEUX INC 119.64 05-FEB-18 119.64 Record 257,071.20 09-FEB-18 257,071.20 Record COPPORATION 384204 01-FEB-18 BOYD & ASSOCIATES 384205 01-FEB-18 BRITHINEE ELECTRIC 14,715.22 05-FEB-18 14,715.22 Record 384206 01-FEB-18 BURTHINEE ELECTRIC 14,715.22 05-FEB-18 14,715.22 Record 384207 01-FEB-18 BURTON, CANDACE 13.12 07-FEB-18 13.12 Record 384208 01-FEB-18 CALATLANTIC HOMES 31.07 09-FEB-18 9,320.66 Record 384209 01-FEB-18 CALATLANTIC HOMES 31.07 09-FEB-18 9,320.66 Record 384209 01-FEB-18 CALATLANTIC HOMES 31.07 09-FEB-18 9,320.66 Record 384209 01-FEB-18 CALARTLANTIC HOMES 31.07 09-FEB-18 9,320.66 Record							*****
384200 01-FEB-18 BILL'S SWEEPING 550.00 06-FEB-18 750.00 Record 5ERVICE INC 5ERVICE SERVICE INC 5ERVICE SERVICE INC 5ERVICE SERVICE SE		01-FEB		977.99	12-FEB-18	977.99	Reconciled
384201 01-FEB-18 BIOMAGIC INC 16,357.26 06-FEB-18 16,357.26 Record 384202 01-FEB-18 BIOMERIEUX INC 119,64 05-FEB-18 119,64 Record 384203 01-FEB-18 BLACK 6 VEATCH 257,071.20 09-FEB-18 257,071.20 Record CORPORATION 257,071.20 09-FEB-18 348.00 Record 384204 01-FEB-18 BOYD 6 ASSOCIATES 348.00 06-FEB-18 348.00 Record 384205 01-FEB-18 BRITHINEE ELECTRIC 14,715,22 05-FEB-18 14,715,22 Record 384206 01-FEB-18 BUTON, CANDACE 13.12 07-FEB-18 13.12 Record 384207 01-FEB-18 CALGRIAN, KRISTEN 53.83 21-FEB-18 53.83 Record 384208 01-FEB-18 CALGRIAN, KRISTEN 53.83 21-FEB-18 9,320.66 Record 384209 01-FEB-18 CALGRIAN, INC.	384199	0.0				750.00	Reconciled
384202 01-FEB-18 BIOMERIEUX INC 119.64 05-FEB-18 119.64 Record 257,071.20 09-FEB-18 257,071.20 Record 257,071.20 09-FEB-18 257,071.20 Record 257,071.20 Reco		01-FEE		750.00	06-FEB-18		
384203 01-FEB-18 BLACK 6 VEATCH 257,071.20 09-FEB-18 257,071.20 Record CORPORATION 384204 01-FEB-18 BUD & ASSOCIATES 348.00 06-FEB-18 348.00 Record Section 10-FEB-18 BURTON, CANDACE 14,715.22 05-FEB-18 14,715.22 Record Section 10-FEB-18 BURTON, CANDACE 13.12 07-FEB-18 13.12 Record Section 10-FEB-18 CALATLANTIC HOMES 31.07 09-FEB-18 31.07 Record Section 10-FEB-18 CALATLANTIC HOMES 31.07 09-FEB-18 9,320.66 Record Section 10-FEB-18 CALATLANTIC HOMES 31.07 Record Section 10-FEB-18 CALATLANTIC HOMES 31.07 09-FEB-18 9,320.66 Record Section 10-FEB-18 CALATLANTIC HOMES 31.07 Record Section 10-FEB-18 CALATLANTIC HOMES 31.07 09-FEB-18 9,320.66 Record Section 10-FEB-18 CALATLANTIC HOMES 31.07 No-FEB-18 Section 10-FEB-18 CALATLANTIC HOMES 31.07 No-FEB-18 9,320.66 Record Section 10-FEB-18 CALATLANTIC HOMES 31.07 No-FEB-18 9,320.66 Record Section 10-FEB-18 CALATLANTIC HOMES 31.07 No-FEB-18 9,320.66 Record Section 10-FEB-18 NO-FEB-18 NO	384200		SERVICE INC			16 357 26	Peconciled
384204 01-FEB-18 BOYD & ASSOCIATES 348.00 06-FEB-18 348.00 Recommodate 384205 01-FEB-18 BRITHINEE ELECTRIC 14,715.22 05-FEB-18 14,715.22 Recommodate 384206 01-FEB-18 BURTON, CANDACE 13.12 07-FEB-18 13.12 Recommodate 384207 01-FEB-18 CAGGIANO, KRISTEN 53.83 21-FEB-18 53.83 Recommodate 384208 01-FEB-18 CALIATIANTIC HOMES 31.07 09-FEB-18 31.07 Recommodate 384209 01-FEB-18 CALIFORNIA 9,320.66 08-FEB-18 9,320.66 Recommodate 384209 11-FEB-18 RECOMMODATE RECOMMODATE RECOMMODATE 9,320.66 RECOMMODATE 384209 11-FEB-18 CALIFORNIA 9,320.66 08-FEB-18 9,320.66 RECOMMODATE 384209 11-FEB-18 RECOMMODATE RECOMMODATE RECOMMODATE RECOMMODATE RECOMMODATE 384209 11-FEB-18 CALIFORNIA 9,320.66 08-FEB-18 9,320.66 RECOMMODATE 384209 11-FEB-18 RECOMMODATE RECOMMODATE RECOMMODATE RECOMMODATE RECOMMODATE 384209 11-FEB-18 RECOMMODATE RECOMMOD	384200 384201	01-FEB	SERVICE INC -18 BIOMAGIC INC	16,357.26	06-FEB-18		Reconciled Reconciled
384205 01-FEB-18 BRITHINEE ELECTRIC 14,715.22 05-FEB-18 14,715.22 Record 384206 01-FEB-18 BURTON, CANDACE 13.12 07-FEB-18 13.12 Record 384207 01-FEB-18 CAGGIANO, KRISTEN 53.83 21-FEB-18 53.83 Record 384208 01-FEB-18 CALATLANTIC HOMES 31.07 09-FEB-18 31.07 Record 384209 01-FEB-18 CALIFORNIA 9,320.66 08-FEB-18 9,320.66 Record 384208 CALIFORNIA 19,320.66 RECORD 384208 CALIFORNIA 19,320.66 RECORD 384209 CALIFORNIA 19,320.66 RECORD 384208 CALIFORNIA 19,320.66 RECORD 38420	384200 384201 384202	01-FEB 01-FEB	SERVICE INC -18 BIOMAGIC INC -18 BIOMERIEUX INC -18 BLACK & VEATCH	16,357.26 119.64	06-FEB-18 05-FEB-18	119.64	Reconciled Reconciled Reconciled
384206 01-FEB-18 BURTON, CANDACE 13.12 07-FEB-18 13.12 Recom 384207 01-FEB-18 CAGGIANO, KRISTEN 53.83 21-FEB-18 53.83 Recom 384208 01-FEB-18 CALATLANTIC HOMES 31.07 09-FEB-18 31.07 Recom 384209 01-FEB-18 CALIFORNIA 9,320.66 08-FEB-18 9,320.66 Recom BARRICADE RENTAL, INC.	384200 384201 384202 384203	01-FEB 01-FEB 01-FEB	SERVICE INC -18 BIOMAGIC INC -18 BIOMERIEUX INC -18 BLACK & VEATCH CORPORATION	16,357.26 119.64 257,071.20	06-FEB-18 05-FEB-18 09-FEB-18	119.64 257,071.20	Reconciled Reconciled
384208 01-FEB-18 CALATLANTIC HOMES 31.07 09-FEB-18 31.07 Recommod	384200 384201 384202 384203 384204	01-FEB 01-FEB 01-FEB	SERVICE INC -18 BIOMAGIC INC -18 BIOMERIEUX INC -18 BLACK & VEATCH CORPORATION -18 BOYD & ASSOCIATES	16,357.26 119.64 257,071.20 348.00	06-FEB-18 05-FEB-18 09-FEB-18	119.64 257,071.20 348.00	Reconciled
384209 01-FEB-18 CALIFORNIA 9,320.66 08-FEB-18 9,320.66 Recom- BARRICADE RENTAL, INC.	384200 384201 384202 384203 384204 384205 384206	01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB	SERVICE INC -18 BIOMAGIC INC -18 BIOMERIEUX INC -18 BLACK & VEATCH CORPORATION -18 BOYD & ASSOCIATES -18 BRITHINEE ELECTRI -18 BURTON, CANDACE	16,357.26 119.64 257,071.20 348.00 C 14,715.22	06-FEB-18 05-FEB-18 09-FEB-18 06-FEB-18 05-FEB-18	119.64 257,071.20 348.00 14,715.22	Reconciled Reconciled
BARRICADE RENTAL, INC.	384200 384201 384202 384203 384204 384205 384206 384207	01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB	SERVICE INC BIOMAGIC INC BIOMERIEUX INC BIOMERIEUX INC CORPORATION BOYD & ASSOCIATES BRITHINEE ELECTRI BURTON, CANDACE CAGGIANO, KRISTEN	16,357.26 119.64 257,071.20 348.00 C 14,715.22 13.12 53.83	06-FEB-18 05-FEB-18 09-FEB-18 06-FEB-18 05-FEB-18 07-FEB-18	119.64 257,071.20 348.00 14,715.22 13.12	Reconciled Reconciled Reconciled
	384200 384201 384202 384203 384204 384205 384206 384207 384208	01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB	SERVICE INC -18 BIOMERIEUX INC -18 BLOMERIEUX INC -18 BLACK & VEATCH CORPORATION -18 BOYD & ASSOCIATES -18 BRITHINEE ELECTRI -18 BURTON, CANDACE -18 CAGGIANO, KRISTEN -18 CALATLANTIC HOMES	16,357.26 119.64 257,071.20 3 348.00 C 14,715.22 13.12 53.83 31.07	06-FEB-18 05-FEB-18 09-FEB-18 06-FEB-18 05-FEB-18 07-FEB-18 21-FEB-18	119.64 257,071.20 348.00 14,715.22 13.12 53.83 31.07	Reconciled Reconciled Reconciled Reconciled Reconciled
1, 11111	384200 384201 384202 384203 384204 384205 384206 384207 384208	01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB	SERVICE INC -18 BIOMERIEUX INC -18 BLACK & VEATCH CORPORATION -18 BOYD & ASSOCIATES -18 BURTON, CANDACE -18 CAGGIANO, KRISTEN -18 CALATLANTIC HOMES -18 CALIFORNIA BARRICADE RENTAL,	16,357.26 119.64 257,071.20 348.00 C 14,715.22 13.12 53.83 31.07 9,320.66	06-FEB-18 05-FEB-18 09-FEB-18 06-FEB-18 05-FEB-18 07-FEB-18 21-FEB-18 09-FEB-18	119.64 257,071.20 348.00 14,715.22 13.12 53.83 31.07	Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled
384211 01-FEB-18 CANON SOLUTIONS 2,311.38 05-FEB-18 2,311.38 Recon	384200 384201 384202 384203 384204 384205 384206 384207 384208	01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB	SERVICE INC -18 BIOMAGIC INC -19 BIOMERIEUX INC -18 BLACK & VEATCH CORPORATION -18 BOYD & ASSOCIATES -18 BRITHINEE ELECTRI -18 CAGGIANO, KRISTEN -18 CALATLANTIC HOMES -18 CALIFORNIA BARRICADE RENTAL, INC. -16 CANON FINANCIAL	16,357.26 119.64 257,071.20 348.00 C 14,715.22 13.12 53.83 31.07 9,320.66	06-FEB-18 05-FEB-18 09-FEB-18 06-FEB-18 05-FEB-18 07-FEB-18 21-FEB-18 09-FEB-18	119.64 257,071.20 348.00 14,715.22 13.12 53.83 31.07	Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled
384212 01-FEB-18 CENTRAL COAST 2,245.00 05-FEB-18 2,245.00 Recom	384200 384201 384202 384203 384204 384205 384206 384207 364208 384209	01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB	SERVICE INC -18 BIOMERIEUX INC -18 BLACK & VEATCH CORPORATION -18 BOYD & ASSOCIATES -18 BRITHINEE ELECTRI -18 EURTON, CANDACE -18 CAGGIANO, KRISTEN -18 CALATLANTIC HOMES -18 CALIFORNIA BARRICADE RENTAL, INC. -18 CANON FINANCIAL SERVICES, INC -18 CANON SOLUTIONS	16,357.26 119.64 257,071.20 348.00 C 14,715.22 13.12 53.83 31.07 9,320.66 4,602.59	06-FEB-18 05-FEB-18 09-FEB-18 06-FEB-18 05-FEB-18 21-FEB-18 09-FEB-18 08-FEB-18	119.64 257,071.20 348.00 14,715.22 13.12 53.83 31.07 9,320.66	Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled
LLC	384200 384201 384202 384203 384204 384205 384206 384207 384208 384209 384210 384211	01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB	SERVICE INC -18 BIOMERIEUX INC -18 BLOMERIEUX INC -18 BLACK & VEATCH CORPORATION -18 BOYD & ASSOCIATES -18 BURTON, CANDACE -18 CALGEANO, KRISTEN -18 CALATLANTIC HOMES -18 CALIFORNIA BARRICADE RENTAL, INC. -18 CANON FINANCIAL SERVICES, INC -18 CANON SOLUTIONS AMERICA, INC. -16 CENTRAL COAST	16,357.26 119.64 257,071.20 348.00 C 14,715.22 13.12 53.83 31.07 9,320.66 4,602.59 2,311.38	06-FEB-18 05-FEB-18 09-FEB-18 06-FEB-18 05-FEB-18 21-FEB-18 09-FEB-18 08-FEB-18	119.64 257,071.20 348.00 14,715.22 13.12 53.83 31.07 9,320.66 4,602.59 2,311.38	Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled
	384200 384201 384202 384203 384204 384205 384206 384207 384208 384209 384210 384211 384211	01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB	SERVICE INC -18 BIOMERIEUX INC -18 BIOMERIEUX INC -18 BLACK & VEATCH CORPORATION -18 BOYD & ASSOCIATES -18 BRITHINEE ELECTRI -18 CAGGIANO, KRISTEN -18 CALATLANTIC HOMES -18 CALIFORNIA BARRICADE RENTAL, INC. -18 CANON FINANCIAL SERVICES, INC -18 CANON SOLUTIONS AMERICA, INC. -18 CENTRAL COAST POWER SERVICES, LLC	16,357.26 119.64 257,071.20 348.00 14,715.22 13.12 53.83 31.07 9,320.66 4,602.59 2,311.38 2,245.00	06-FEB-18 05-FEB-18 09-FEB-18 06-FEB-18 05-FEB-18 07-FEB-18 09-FEB-18 08-FEB-18 05-FEB-18	119.64 257,071.20 348.00 14,715.22 13.12 53.83 31.07 9,320.66 4,602.59 2,311.38 2,245.00	Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled
	384200 384201 384202 384203 384204 384205 384206 384207 384209 384210 384211 384212 384213	01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB	SERVICE INC -18 BIOMERIEUX INC -18 BLOMERIEUX INC -18 BLACK 6 VEATCH CORPORATION -18 BOYD 6 ASSOCIATES -18 BURTON, CANDACE -18 CALGGIANO, KRISTEN -18 CALATLANTIC HOMES -18 CALIFORNIA BARRICADE RENTAL, INC. -18 CANON FINANCIAL SERVICES, INC -18 CANON SOLUTIONS AMERICA, INC. -10 CENTRAL COAST FOWER SERVICES, LLC -11 CHEN, FANGI	16,357.26 119.64 257,071.20 348.00 C 14,715.22 13.12 53.83 31.07 9,320.66 4,602.59 2,311.38 2,245.00	06-FEB-18 05-FEB-18 09-FEB-18 06-FEB-18 05-FEB-18 21-FEB-18 09-FEB-18 08-FEB-18 05-FEB-18	119.64 257,071.20 348.00 14,715.22 13.12 53.83 31.07 9,320.66 4,602.59 2,311.38 2,245.00	Reconciled
CORP	384200 384201 384202 384203 384204 384205 384206 384207 384208 384209 384210 384211 384212 384213 384214	01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB	SERVICE INC -18 BIOMERIEUX INC -18 BIOMERIEUX INC -18 BLACK & VEATCH CORPORATION -18 BOYD & ASSOCIATES -18 BRITHINEE ELECTRI -19 CAGGIANO, KRISTEN -18 CALATLANTIC HOMES -18 CANON FINANCIAL SERVICES, INC -18 CANON SOLUTIONS AMERICA, INC. -18 CENTRAL COAST POWER SERVICES, LLC -18 CHEN, FANGI -18 CHEN, JAY	16,357.26 119.64 257,071.20 348.00 C 14,715.22 13.12 53.83 31.07 9,320.66 4,602.59 2,311.38 2,245.00	06-FEB-18 05-FEB-18 09-FEB-18 06-FEB-18 05-FEB-18 07-FEB-18 21-FEB-18 09-FEB-18 05-FEB-18 05-FEB-18	119.64 257,071.20 348.00 14,715.22 13.12 53.83 31.07 9,320.66 4,602.59 2,311.38 2,245.00	Reconciled
384216 01-FEB-18 CIRCUIT ASSEMBLY 24.57 27-FEB-18 24.57 Recon	384200 384201 384202 384203 384204 384205 384206 384207 384208 384209 384210 384211 384212 384213 384213 384214 384215	01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB 01-FEB	SERVICE INC -18 BIOMARIC INC -18 BIOMERIEUX INC -18 BLACK 6 VEATCH CORPORATION -18 BOYD 6 ASSOCIATES -18 BURTON, CANDACE -18 BURTON, CANDACE -18 CALGGIANO, KRISTEN -18 CALATLANTIC HOMES -18 CALIFORNIA BARRICADE RENTAL, INC. -18 CANON FINANCIAL SERVICES, INC -18 CANON SOLUTIONS AMERICA, INC. -10 CENTRAL COAST POWER SERVICES, LLC -11 CHEN, JAY -12 CIRCUIT ASSEMBLY CORP	16,357.26 119.64 257,071.20 348.00 C 14,715.22 13.12 53.83 31.07 9,320.66 4,602.59 2,311.38 2,245.00	06-FEB-18 05-FEB-18 09-FEB-18 06-FEB-18 05-FEB-18 21-FEB-18 09-FEB-18 08-FEB-18 05-FEB-18	119.64 257,071.20 348.00 14,715.22 13.12 53.83 31.07 9,320.66 4,602.59 2,311.38 2,245.00	Reconciled

			CORPORATION					
384217 384218			CITY OF IRVINE CITY OF LAKE		1,875.20 15,000.00	05-FEB-18 12-FEB-18		Reconciled Reconciled
384219			FOREST CITY OF NEWPORT		1,147.99	07-FEB-18	,	Reconciled
384220		01-FEB-18	BEACH CLARIS STRATEGY		1,325.00	06-FEB-18		Reconciled
384221		01-FEB-18	INC. COAST PLUMBING HEATING AND AIR,		89.00	05-FEB-18	89.00	Reconciled
384222		01-FEB-18	INC COASTLINE		1,469.71	05-FEB-18	1,469.71	Reconciled
384223		01-FEB-18	EQUIPMENT COMPANY COLONIAL LIFE & ACCIDENT INSURANCE		1,230.32	08-FEB-18	1,230.32	Reconciled
384224		01-FEB-18	CO. COUNTY OF ORANGE		1,515.38	07-FEB-18	1,515.30	Reconciled
Bank Acco	America N.A.	Brand USD (US 1	Payment ch : Los Angeles Dollar)		For 01-FEB-18 To Account: Check Payment Curr Pisplay Supplier Add	ing AP and I ency: USD	Report Date: 28- PR Page: (US Dollar)	-FEB-2018 13:47
Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared	Cleared Amount	Status
								Status
Payment Docum	ent : IRWD CH	ECK						
384225		01-FEB-18	COX COMMUNICATIONS, INC.		376.36	06-FEB-18	376,36	Reconciled
384226		01-FEB-18			91.03	06-FEB-18	91.03	Reconciled
384227 384228			D & G SIGNS DETECTION INSTRUMENTS CORP		883.55 8,766.19	09-FEB-18 07-FEB-18		Reconciled Reconciled
384229 384230			DIRECTV INC DMS FACILITY		118.53 18,251.93	08-FEB-18 07-FEB-18		Reconciled Reconciled
384231		01-FEB-18	SERVICES, INC. DOUGLAS ENVIRONMENTAL		1,250.00	05~FEB-18		Reconciled
384232		01_FFB_19	GROUP INC		47.05	05 === 10		
384233			ECKERT, JUDITH ECO SERVICES LLC		47.95 20,303.54	05-FEB-18 08-FEB-18		Reconciled Reconciled
384234		01-FEB-18	EI&C ENGINEERING INC		48,593.00	22-FEB-18		Reconciled
384235		01-FEB-18	ELITE EQUIPMENT, INC.		261.66	07-FEB-18	261,66	Reconciled
384236		01-FEB-18	ENTERPRISE		14,925.98	12-FEB-18	14,925.98	Reconciled
384237		01-FEB-18	RIDESHARE ENTERPRISE SECURITY, INC		200,00	05-FEB-18	200.00	Reconciled
384238		01-FEB-18	ENVIRONMENTAL RESOURCE		212.87	07-FEB-18	212.87	Reconciled
384239		01-FEB-18	ASSOCIATES EXCHANGE CLUB OF IRVINE		250.00	27-FEB-18	250.00	Reconciled
384240			EXECUTIVE LIGHTING & ELECTRIC		6,058.68	06-FEB-18	6,058.68	Reconciled
384241 384242		01-FEB-18	FEDEX FIERRO, SERGIO D		361.86 3,324.99	05-FEB-18 05-FEB-18	361.86	Reconciled
384243			FIRST CHOICE SERVICES		609.52	07-FEB-18	3,324.99 609.52	Reconciled Reconciled
384244 384245		01-FEB-18 01-FEB-18	FISHER SCIENTIFIC		17,663.71 2,448.12	07-FEB-18 05-FEB-18	17,663.71 2,448.12	Reconciled Reconciled
384246		01-FEB-18	COMPANY LLC FRONTIER CALIFORNIA INC.		271.26	09-FEB-18	271.26	Reconciled
384247		01-FEB-10	FUSCOE ENGINEERING, INC.		3,632.00	05-FEB-18	3,632.00	Reconciled
384248 384249		01-FEB-18			197.99 9.52	09-FEB-10	197.99	Reconciled Negotiable
384250		01-FEB-18	GE GRID SOLUTIONS, LLC		806,31	05-FEB-18	806.31	Reconciled
Bank Accou	rade America N.A. unt Currency: Type: All	Branc USD (US D	h : Los Angeles		For 01-FEB-18 To Account: Checki Payment Curre isplay Supplier Addr	ng AP and P ncy: USD (PR Page:	
Payment Number	Seguence Num	Date	Supplier Name	Sito	Paumont Paul	Cleared		
			suppiter Name	2220200	rayment Amount		Cleared Amount	Status
Payment Docume 384251			GEI CONSULTANTS		10 041 77	00 ppp 10	10.043.05	D121
384252			INC GJ AUTOMOTIVE		12,841.77 266.97	08-FEB-18 09-FEB-18	12,841.77 266.97	Reconciled Reconciled
384253		01-FEB-18	EQUIPMENT CO INC					
384254			GRAINGER GUIDA SURVEYING INC.		4,661.68 2,732.80	05-FEB-18 06-FEB-18	4,661.68 2,732.80	Reconciled Reconciled
384255 384256			HACH COMPANY HARDY & HARPER, INC.		2,681.68 24,558.00	05-FEB-18 06-FEB-18	2,681.68 24,558.00	Reconciled Reconciled
			2110.					

384257	01-FEB-18	HARTFORD LIFE AND	72.30	05-FEB-18	72.30	Reconciled
		ACCIDENT INSURANCE COMPANY				
384258	01-FEB-18	HDR ENGINEERING	11,878.62	12-FEB-18	11,878.62	Reconciled
		INC			·	
384259	01-FEB-18	HELPMATES STAFFING SERVICES	7,352.03	05-FEB-18	7,352.03	Reconciled
384260	01-FEB-18	HERNANDEZ, JUAN	48.18	06-FEB-18	48.18	Reconciled
384261	01-FEB-18		64,103,27	08-FEB-18	64,103,27	Reconciled
		CHEMICAL COMPANY	01/10012/	00 100	04,105.27	Reconcited
384262	01-FEB-18	HOLT, ANDY	217.21	05-FEB-18	217.21	Reconciled
384263	01-FEB-18		19.36	06-FEB-18	19.36	Reconciled
384264	01-FEB-18		6,435.16	06-FEB-18	6,435,16	Reconciled
		PRODUCTS INC	0,433.10	OO LED-10	0,433,10	Reconciled
384265	01-FEB-18	HORIZON TECHNOLOGY	385,23	06-FEB-18	385.23	Reconciled
		INC			303.23	Reconciled
384266	01-FEB-18	HYDROTECH ELECTRIC	350,00	05-FEB-18	350.00	Reconciled
384267	01-FEB-18	IBM CORPORATION	4,126.00	06-FEB-18	4,126,00	Reconciled
384268	01-FEB-18	IRVINE PACIFIC	190.59	13-FEB-18	190.59	Reconciled
384269	01-FEB-18	IRVINE PIPE &	3,315.56	05-FEB-18	3,315,56	Reconciled
		SUPPLY INC	-,	00 125 10	3,313.30	Reconcited
384270	01-FEB-18	IRWD EMPLOYEES	1,400.00	09-FEB-18	1,400.00	Reconciled
		ASSOCIATION	_,,	** ***	1,100.00	Reconciled
384271	01-FEB-18	KAPIC, MAJA	23.66	05-FEB-18	23,66	Reconciled
384272	01-FEB-18	KATZ & ASSOCIATES,	2,772,76	05-FEB-18	2,772.76	Reconciled
		INC.	-,,		2,772.70	RECORCITED
384273	01-FEB-18	KAYUGA SOLUTION	3,760.00	06-FEB-18	3,760.00	Reconciled
		INC	,		0,,00.00	Reconciled
384274	01-FEB-18	KB HOMES	18.07	26-FEB-18	18.07	Reconciled
384275	01-FEB-18	KEAR, LAUREN	182.18	06-FEB-18	182.18	Reconciled
384276	01-FEB-18	KENNEDY/JENKS	31,839,40	09-FEB-18	31,839.40	Reconciled
		CONSULTANTS INC	,		51,055.40	Reconciled
384277	01-FEB-18	KENNY THE PRINTER	150,06	05-FEB-18	150.06	Reconciled
304278	01-FEB-18	KENT & AMY	39,123.00	07-FEB-18	39,123,00	Reconciled
		DAHLBERG	,		53,123.00	neconciled
IRWD Ledger Upgrade		Payment Register For	01-FEB-18 To	28-FEB-18	Report Date: 28-	FEB-2018 13:47

er For 01-FEB-18 To 28-FEB-18 Report Date: 28-FEB-2018 13:47
Account: Checking AP and PR Page: 5
Payment Currency: USD (US Dollar)
Display Supplier Address: No Payme
BANK: Bank of America N.A. Branch : Los Angeles
Bank Account Currency: USD (US Dollar)
Payment Type: All

Payment Number Sequence	Num Date	Supplier Name Site	Payment Amount	Date	Cleared Amount	Statu
Payment Document : IRWD						
384279	01-FEB-18	LA HABRA FENCE COMPANY INC	4,628.00	06-FEB-18	4,628.00	Reconciled
384280	01-FEB-18	LEE, LOUIS	60.74	14-FEB-18	60.74	
384281	01-FEB-18		21.31	09-FEB-18	21.31	Reconciled
384282		LENNAR HOMES	596.05	06-FEB-18	596.05	Reconciled
384283		LI, LIANG	119.62	05-FEB-18		Reconciled
384284		LI, RUNKAI	14.80	03-FEB-10	119.62	Reconciled
384285		LITTLEJOHN, EDWARD	38.45	05-FEB-18	20.45	Negotiable
384286		LIU, XIZHI	56,08		38,45	Reconciled
384287		LO, CARRIE		05-FEB-18	56.00	Reconciled
384288	01-FEB-10	LSA ASSOCIATES INC	10.19 3,023.77	23-FEB-18	10.19	Reconciled
384289	01-FEB-18	LUBRICATION		05-FEB-18	3,023.77	Reconciled
		ENGINEERS, INC.	6,735.19	05-FEB-18	6,735.19	Reconciled
384290		MA, YIWEN	27.61	13-FEB-18	27.61	Reconciled
384291	01-FEB-18		40.34	22-FEB-18	48.34	Reconciled
384292	01-FEB-18	MC MASTER CARR SUPPLY CO	572.98	05-FEB-18	572,98	Reconciled
384293	01-FEB-18	MEL UNDERWOOD WATER TRUCKS & EQUIPMENT	845.00	06-FEB-18	845.00	Reconciled
384294	01-FEB-18		18,795.00	08-FEB-18	18,795.00	Reconciled
384295	01-FEB-18	MILLER, JUSTIN	51.58	08-FEB-18	51.58	Reconciled
384296	01-FEB-18		227.40	06-FEB-18	227.40	Reconciled
384297	01-FEB-18		36.13	16-FEB-18	36.13	D
384298		MOBILE MODULAR MANAGEMENT CORPORATION	1,018.24	06~FEB-18	1,018.24	Reconciled Reconciled
384299	01-FEB-18	MODERN WATER INC	636,10	20-FEB-18	636,10	Reconciled
384300	01-FEB-18		980,00	ZO IED IO	030.10	Negotiable
384301	01-FEB-18	MSC INDUSTRIAL	739.49	09-FEB-18	739.49	Reconciled
		SUPPLY CO			.03,12	MCCOMCIICA
384302	01-FEB-18	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	294,90	05-FEB-18	294.90	Reconciled
384303	01-FEB-18	NATURALWELL, LLC	1,210.00	05-FEB-18	1,210.00	Reconciled
384304	01-FEB-18		7,796.42	06-FEB-18	7,796.42	Reconciled
384305	01-FEB-18	NCH CORPORATION	1,427.55	07-FEB-18	1,427.55	Reconciled
384306	01-FEB-18		3,150.00	05-FEB-18	3,150.00	Reconciled
384307	01-FEB-18		233.08	05-FEB-18	233.08	Reconciled
384308	01-FEB-18	O'HAREN GOVERNMENT RELATIONS	6,500.00	06-FEB-18	6,500.00	Reconciled
RWD Ledger Upgrade		Payment Register F	For 01-FEB-18 To	28-FER-18	Report Date: 28-	ינו פוחכיםים.
BANK: Bank of America N.A	A. Branc	h : Los Angeles	Account: Checki			6 -2018 13:
Bank Account Currence	cy; USD (US D	ollar)	Payment Curre			O

Payment Type: All

Display Supplier Address: No

	nt : IRWD CHECK	Supplier Name	Site Payment Amou	nt Date	Cleared Amount	Sta
	IC . IRWD CHECK					
384309 384310		OLIN CORPORATION ONESOURCE DISTRIBUTORS LLC	6,459.5 11,452.8	05-FEB-18 07-FEB-18		Reconcile Reconcile
384311	01-FEB-18	ORANGE COUNTY AUTO PARTS CO	47.9	4 05-FEB-18	47.94	Reconcile
384312	01-FEB-18	ORANGE COUNTY SANITATION	69,859.3	5 06-FEB-18	69,859.35	Reconcile
384313	01-FEB-18	DISTRICT ORANGE COUNTY	62.5	08-FEB-18	62.50	Reconcile
384314	01-FEB-18	SHERIFF'S OFFICE ORANGECOAST	37.2	5 12-FEB-18	37.25	Reconcile
384315	01-FEB-18		12,4		12.40	Reconcile
384316 384317		PANDIT, RAKESH PARKHOUSE TIRE INC	54.2 215.5		215.50	Negotiabl Reconcile
384318		PARKWAY LAWNMOWER SHOP	120.2			Reconcile
384319 384320		PAYNE & FEARS LLP PERKINELMER HEALTH				Reconcile Reconcile
384321		SCIENCES INC PERS LONG TERM	675.3		, .	Reconcile
384322		CARE PHENOVA, INC.	252 6	02_FFB_10		Reconcile
384323		PIVOT INTERIORS		2 07-FEB-18		Reconcile
384324	01-FEB-18		896.2	05-FEB-18	896.20	Reconcile
384325	01-FEB-18	PRE-PAID LEGAL SERVICES INC	1,284.6	08-FEB-18	1,284.64	Reconcile
384326	01-FEB-18	PRESTIGE AUTO BODY EXPRESS	1,514.7	06-FEB-18	1,514.79	Reconcile
884327	01-FEB-18	PRO MOBILE AUTO DETAILING	350.0	05-FEB-18	350,00	Reconcile
804328	01-FEB-18	PTI SAND & GRAVEL	548.5	08-FEB-18	548.54	Reconcil
84329	01-FEB-18		2,618.3	06-FEB-18	2,618.33	Reconcil
84330	01-FEB-18	RINGCLEAR LLC	135.8	06-FEB-18	135.84	Reconcil
84331	01-FEB-18	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT	65,922.8	2 16-FEB-18	65,922.82	Reconcil
184332	01~FEB-18	RS HUGHES COMPANY,	1,255.2	06-FEB-18	1,255.29	Doggoodil
					1,255.25	Reconcil
384333	01-FEB-18	INC. S & J SUPPLY CO INC	11,545.6	2 07-FEB-18	11,545.62	Reconcile
384333	01-FEB-18	INC. S & J SUPPLY CO INC		2 07-FEB-18	11,545.62	
884333 RWD Ledger Upgra BANK: Bank of Ar Bank Accou Payment '	01-FEB-18 dde merica N.A. Brand tt Currency: USD (US D ype: All	INC. S & J SUPPLY CO INC Payment I th: Los Angeles collar)	11,545.6 Register For 01-FEB-18 To Account: Che Payment Cu: Display Supplier Ac	2 07-FEB-18 2 28-FEB-18 2 king AP and H rency: USD ddress: No	11,545.62 Report Date: 28 PR Page: US Dollar)	Reconcile
884333 RWD Ledger Upgra BANK: Bank of Ar Bank Accour Payment ' Lyment Number '	01-FEB-18 ide merica N.A. Branc it Currency: USD (US E 'ype: All	INC. S & J SUPPLY CO INC Payment I th: Los Angeles collar) Supplier Name	11,545.6	207-FEB-18 20 28-FEB-18 20 king AP and I 20 rency: USD of 30 ddress: No Cleared at Date	11,545.62	Reconcile
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WD Ledger Upgra ANK: Bank of Ar Bank Account Payment ' Wyment Number S Payment Document	01-FEB-18 dde derica N.A. Branc it Currency: USD (US E Type: All dequence Num Date t : IRWD CHECK 01-FEB-18	INC. S & J SUPPLY CO INC Payment in the Los Angeles wollar) Supplier Name SANTA ANA BLUE PRINT	11,545.60 Register For 01-FEB-18 To Account: Cher Payment Cu. Display Supplier Accounts Site Payment Amounts	207-FEB-18 20-FEB-18 20-FEB-18 20-FEB-18 20-FEB-18 20-FEB-18 20-FEB-18	Report Date: 28 Report Date: 28 Resport Date: 28 Resport Date: 28 Report Date:	Reconcile 7 St.
WD Ledger Upgr: ANK: Bank of Ar Bank Accoun Payment ' yment Number 1 Payment Documer 84334	01-FEB-18 ide derica N.A. Branc it Currency: USD (US E Type: All Sequence Num Date 01-FEB-18 01-FEB-18	INC. S & J SUPPLY CO INC Payment in the control of	11,545.66 Register For 01-FEB-18 To Account: Checker Payment Curbisplay Supplier Accounts Site Payment Amounts Payment Payment Amounts Payment	2 07-FEB-18 2 28-FEB-18 3 28-FEB-18 3 18-FEB-18 3 18-FEB-18 4 18-FEB-18 4 18-FEB-18	Report Date: 28 Report Date: 28 Page: US Dollar) Cleared Amount 1,371.95 67.31	Reconcil St. Reconcil Reconcil
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WD Ledger Upgr: ANK: Bank of Ar Bank Accour Payment ' yment Number ' Payment Documer 84334 84335 84336 84337 84338 84339 84339 84334 84340 84341	01-FEB-18 ide lerica N.A. Branc tt Currency: USD (US E Type: All Sequence Num Date O1-FEB-18 01-FEB-18 01-FEB-18 01-FEB-18 01-FEB-18 01-FEB-18 01-FEB-18	INC. Payment I th: Los Angeles collar) Supplier Name SANTA ANA BLUE PRINT SANTA MARGARITA FORD SCHINDLER ELEVATOR CORPORATION SHEA HOMES, LIMITED PARTNERSHIP SHERMAN, RICHARD M SIGMA-ALDRICH INC SITMATIC SMARTCOVER SYSTEMS	11,545.66 Register For 01-FEB-18 TAccount: Cher Payment Cur Display Supplier Ad Site Payment Amount 1,371.99 67.33 202.99 46.36 20.56 380.86 1,465.47 1,427.01	2 07-FEB-18 2 28-FEB-18 3 28-FEB-18 3 trency: USD 18 4dress: No Cleared at Date 4 06-FEB-18 4 07-FEB-18 5 06-FEB-18 6 05-FEB-18 7 05-FEB-18	11,545.62 Report Date: 28 Page: US Dollar) Cleared Amount 1,371.95 67.31 202.95	Reconcil
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RWD Ledger Upgr: SANK: Bank of Ar Bank Account Payment ' Payment Number S Payment Documer 884334 884335 884336 884337 884338 884339 884339 884340 884341 884341 884342 884343 884344	O1-FEB-18 dde derica N.A. Branc tr Currency: USD (US D Type: All Sequence Num Date O1-FEB-18 O1-FEB-18	INC. S & J SUPPLY CO INC Payment I th: Los Angeles collar) Supplier Name SANTA ANA BLUE PRINT SANTA MARGARITA FORD SCHINDLER ELEVATOR CORPORATION SHEA HOMES, LIMITED PARTMERSHIP SHERMAN, RICHARD M SIGMA-ALDRICH INC SITMATIC SMARTCOVER SYSTEMS SMOG TIME SOUTH BAY FOUNDRY, INC SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT SOUTH COAST	11,545.66 Register For 01-FEB-18 TAccount: Cher Payment Cur Display Supplier Ac Site Payment Amount 1,371.99 67.33 202.99 46.36 20.56 380.86 1,465.47 1,427.00 59.76 3,431.86	207-FEB-18 20 28-FEB-18 20 28-FEB-18 20 king AP and I renery: USD Iddress: No Cleared the Date 30 06-FEB-18 30 07-FEB-18 30 07-FEB-18 30 06-FEB-18 30 06-FEB-18 30 06-FEB-18 30 06-FEB-18 30 06-FEB-18 30 06-FEB-18	11,545.62 Report Date: 28 Page: US Dollar) Cleared Amount 1,371.95 67.31 202.95 380.83 1,465.47 1,427.01 59.75	Reconcile
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384333 RWD Ledger Upgr: BANK: Bank of Ar Bank Accour Payment '	O1-FEB-18 dde derica N.A. Branc it Currency: USD (US F Pype: All Sequence Num Date O1-FEB-18	INC. Payment I INC Payment I I : Los Angeles Payment I I : Los Angeles Payment I I : Los Angeles Payment I Payment I Payment I Payment I Payment I Supplier Name SANTA ANA BLUE PRINT SANTA MARGARITA FORD SCHINDLER ELEVATOR CORPORATION SHEA HOMES, LIMITED PARTNERSHIP SHERMAN, RICHARD M SIGMA-ALDRICH INC SITMATIC SMARTCOVER SYSTEMS SMOG TIME SOUTH BAY FOUNDRY, INC SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT SOUTH COAST ANSWERING SERVICE SOUTH COAST WATER DISTRICT SOUTH COAST WATER DISTRICT SOUTH COAST WATER DISTRICT SOUTH ORANGE COUNTY WASTEWATER	11,545.63 Register For 01-FEB-18 To Account: Cher Payment Cur. Display Supplier Action 1,371.93 67.33 202.93 46.36 20.56 380.63 1,465.47 1,427.00 59.78 3,431.86 1,011.46	207-FEB-18 209-FEB-18 200-FEB-18	11,545.62 Report Date: 28 Page: US Dollar) Cleared Amount 1,371.95 67.31 202.95 380.83 1,465.47 1,427.01 59.75 1,011.48	Reconcile
RWD Ledger Upgr: SANK: Bank of Ar Bank Account Payment ! Payment Number ! Payment Documer 84334 84335 84336 84337 84338 84339 84340 84341 84342 84343 84344	O1-FEB-18 ade merica N.A. Branc tt Currency: USD (US E Type: All Sequence Num Date O1-FEB-18 O1-FEB-18	INC. Payment in the control of the	11,545.66 Register For 01-FEB-18 To Account: Cher Fayment Cu. Display Supplier Ac Site Payment Amount 1,371.99 67.33 202.99 46.30 20.56 380.83 1,465.47 1,427.03 59.78 3,431.86 1,011.46 942.53	207-FEB-18 209-FEB-18 200-FEB-18	11,545.62 Report Date: 28 Page: US Dollar) Cleared Amount 1,371.95 67.31 202.95 380.83 1,465.47 1,427.01 59.75 1,011.48 942.53 2,842.39	Reconcile FEB-2018 17 Sta Reconcile

384350		01-FEB-18	COMPANY SOUTHERN CALIFORNIA		1,186.18	14-FEB-18	1,186.18	Reconciled
384351		01-FFB-18	SECURITY CENTERS, INC. SOUTHERN COUNTIES		2,686.81	05-FEB-18	2,686.81	nil-d
			LUBRICANTS LLC				200	Reconciled
384352 384353			SPESS, CHRISTY STANDARD PACIFIC HOMES		35.38 606,59	07-FEB-18 09-FEB-18		Reconciled Reconciled
384354		01-FEB-18	STETSON ENGINEERS		27,733.63	09-FEB-18	27,733.63	Reconciled
384355 384356 384357		01-FEB-18 01-FEB-18 01-FEB-18	INC. SYNERGY COMPANIES TAKUSHI, MYRON TALLEY INC		223,464.60 34.85 225.78	09-FEB-18 07-FEB-18 05-FEB-18	223,464.60 34.85 225.78	Reconciled Reconciled Reconciled
184357 IRWD Ledger Up BANK: Bank of Bank Acc Paymen	grade America N.A. ount Currency: t Type; All	BrandusD (US)	Payment ch : Los Angeles Dollar)	Register For	01-FEB-18 To Account: Check Payment Curr ay Supplier Add	28-FEB-18 ing AP and : ency: USD ress: No	225.78 Report Date: 28 PR Page: (US Dollar)	-FEB-2018 13:47
Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared	Cleared Amount	Status
	ment : IRWD CH		***********					
384358			TESTAMERICA		420.00	00 PPD 10	400.00	D 11 1
			LABORATORIES, INC		420.00	08-FEB-18		Reconciled
384359			THE IRVINE COMPAN		901.60	14-FEB-18		Reconciled
384360 384361			TOLL BROS., INC. TRINIDAD, MARITHE		37.42 48.30	20-FEB-18 08-FEB-18		Reconciled Reconciled
384362		01-FEB-18	TROPICAL PLAZA NURSERY INC		7,738.00	05-FEB-18	7,738.00	Reconciled
384363 384364			TRUCPARCO TYLER SABER AND RYAN TOWNLEY		1,071.35 82,08	12-FEB-18 16-FEB-18	1,071.35 82.08	Reconciled Reconciled
384365 384366			ULTRA SCIENTIFIC UNITED PARCEL SERVICE INC		1,921.50 66.89	06-FEB-18 05-FEB-18		Reconciled Reconciled
384367		01-FEB-18	UNITED SITE SERVICES OF CALIFORNIA INC		630.35	08-FEB-18	630.35	Reconciled
384368		01-FEB-18	URBAN WATER		1,125.00	09-FEB-18	1,125.00	Reconciled
384369		01-FEB-18	INSTITUTE INC VERIZON WIRELESS		9,128.71	05-FEB-18	9,128.71	Reconciled
384370		01-FEB-18	SERVICES LLC VWR INTERNATIONAL	,	2,998.20	05-FEB-18	2,998,20	Reconciled
384371		01-FEB-18	LLC WALTERS WHOLESALE		581.91	06-FEB-18	581.91	Reconciled
384372		01-FEB-18	ELECTRIC WARD, WILLIAM P		615.56	05-FEB-18	615,56	Reconciled
384373		01-FEB-18	JR. WAXIE'S		2,131.52	05-FEB-18	2,131.52	Reconciled
384374		01-FEB-18	ENTERPRISES, INC WESTERN EXTERMINATOR		9,352.50	12-FEB-10	9,352.50	Reconciled
384375		01-FEB-18	COMPANY WIRELESS		824.00	08-FEB-18	824.00	Reconciled
384376			WATCHDOGS, LLC WONDERLY, BILL		58.54	07-FEB-18		Reconciled
384377 384378		01-FEB-18	XUE, HAN YONG, MARJORIE		47.59 76.67	06-FEB-18 06-FEB-18		Reconciled Reconciled
384379		01-FEB-18	YORK INSURANCE SERVICES GROUP INC - CA	С	7,786.25	05-FEB-18	7,786.25	Reconciled
384380 384381			YU, HAORAN		826.13			Negotiable
384382			ZHOU, YUJIE URBAN WATER	LAKE	541.14 1,500.00	09-FEB-18	1,500.00	Negotiable Reconciled
384383		02-FEB-18	INSTITUTE INC TIMOTHY W. HOGAN	FOREST PURCHASE_P	4,162.09	06-FEB-18	4,162.09	Reconciled
IRWD Ledger Up	grade		Payment	AY Register For	01-FEB-18 To	28-FEB-18	Report Date: 28-	-FEB-2018 13:47
Bank Acc	America N.A. cunt Currency: t Type: All	Branc USD (US [ch : Los Angeles Dollar)			ency: USD (PR Page: US Dollar)	9
						Cleared		
******			Supplier Name	Site	Payment Amount	Date	Cleared Amount	Status
Payment Docum	ment : IRWD CH	ECK						
384384		06-FEB-18	JCI JONES CHEMICALS INC	TAMPA	5,466.49	12-FEB-10	5,466.49	Reconciled
384385			Bennett, Ray R (Ray)		357.42	13-FEB-18	357.42	Reconciled
384386		08-FEB-18	Borowski, Michael (Mike)		210.00	14-FEB-18	210.00	Reconciled
304307 304308			Brown, Morgan Compton, Christine	e	170.89 7.49	12-FEB-18 20-FEB-18		Reconciled Reconciled
384389		08-FEB-18	A Cortez, Malcolm A		65.95	26-FEB-18	65.95	Reconciled
384390		08-FEB-18	(Malcolm) Davis, Jennifer R		174,03	09-FEB-18	174.03	Reconciled

		(Jennifer)				
384391	08-FEB-18	Dillhoefer, Edwin J (Ed)	50.00	12-FEB-18	50.00	Reconciled
384392	08-FEB-18	Moeder, Jacob J (Jacob)	35,00	20-FEB-18	35.00	Reconciled
384393	08-FEB-18	Nash, Joel	101.37	16-FEB-18	101.37	Reconciled
384394	08-FEB-18	Reed, James W (James)	33,49	21-FEB-18	33.49	Reconciled
384395	08-FEB-18	Reed, Megan A	1,584.13	12-FEB-18	1,584.13	Reconciled
384396	08-FEB-18	Reyes, Jennifer Russell	100.00	14-FEB-18	100.00	Reconciled
384397	08-FEB-18	Richardson, Kyle	107,74	16-FEB-18	107.74	Reconciled
384398	08-FEB-18	Robinson, Mitchell S	102.90	08-FEB-18	102,90	Reconciled
384399	08-FEB-18	Sosa, Ives (Ives)	80.00	13-FEB-18	80.00	Reconciled
384400	00-FEB-18	Velardes, Mattias J (Matt)	80.00	23-FEB-10	80.00	Reconciled
384401	08-FEB-18	Weghorst, Paul A (Paul)	74.68	12-FEB-18	74.68	Reconciled
384402	08-FEB-18	A.J. KLEIN, INC. T. DENATALE, B. GOLDNER	474.00	13-FEB-18	474.00	Reconciled
384403	08-FEB-18	ACCUSOURCE, INC.	504.80	20-FEB-18	504.80	Reconciled
384404	08-FEB-18	ADAM'S FALCONRY SERVICE, LLC	1,320.00	12-FEB-18	1,320.00	Reconciled
384405	08-FEB-18	ADS LLC	2,160.00	13-FEB-18	2,160,00	Reconciled
384406	08-FEB-18	AGILENT TECHNOLOGIES, INC.	3,087.85	12-FEB-18	3,087.85	Reconciled
384407	08-FEB-18	AIRGAS, INC.	1,097.59	12-FEB-18	1,097,59	Reconciled
384408	08-FEB-18	ALEXANDER'S CONTRACT SERVICES, INC.	116,161.39	15-FEB-18	116,161.39	Reconciled
384409	00-FEB-18	ALEXANDER, TODD	139.87			Negotiable
384410		ALL STAR GLASS		12-FEB-18	276.51	
IRWD Ledger Upgrade		Payment Register	For 01-FEB-18 To	28-FEB-18	Report Date: 28-	FEB-2018 13:47
BANK: Bank of America N.A.		h : Los Angeles	Account: Check			.0
Bank Account Currency:	USD (US D	ollar)	Payment Curre	ency: USD (US		
Payment Type: All		D	isplay Supplier Add	ress: No		

Cleared Payment Number Sequence Num Date Supplier Name Payment Amount Date Status Payment Document : IRWD CHECK 384411 08-FEB-18 ALPHA TRAFFIC 570.00 12-FEB-18 570.00 Reconciled SERVICES, INC. ALSTON & BIRD LLP 384412 08-FEB-18 1,111.50 13-FEB-18 1,111.50 Reconciled 384413 08-FEB-18 AM LEONARD INC 12-FEB-10 491,99 Reconciled 384414 08-FEB-18 AMAZON CAPITAL 1,129,09 13-FEB-18 1,129.09 SERVICES, INC. 384415 08-FEB-18 APEX LIFE SCIENCES, LLC 1,519.88 13-FEB-18 1,519.88 Reconciled 384416 08-FEB-18 ASKEW, MARTHA 21-FEB-18 58.21 Reconciled 384417 08-FEB-18 ASSOCIATION OF 34,364.22 20-FEB-18 34,364.22 CALIFORNIA WATER AGENCIES/JPIA 384418 08-FEB-18 AT&T 3,947.42 13-FEB-18 3,947.42 Reconciled 384419 08-FEB-18 AUTOZONE PARTS, 250.53 14-FEB-18 258.53 Reconciled INC. 384420 08-FEB-18 AYERS, KARL 103.49 20-FEB-18 103.49 Reconciled AZTEC CONTAINER BATTERIES PLUS AND 384421 08-FEB-18 8,566.13 12-FEB-18 Reconciled 384422 08-FEB-18 Reconciled 1,116.83 14-FEB-18 1,116.83 BATTERIES PLUS BULBS 384423 08-FEB-18 BAVCO BACKFLOW 180.17 13-FEB-18 180.17 Reconciled APPARATUS & VALVE COMPANY BECK, ZAWER BEHNKE, JERRY BELLEWICK 384424 08-FEB-18 20-FEB-18 87.66 Reconciled 08-FEB-18 Negotiable 58.96 384426 08-FEB-18 200.00 21-FEB-18 200,00 Reconciled COMMUNITY ASSOCIATION 384427 08-FEB-18 BERTHA HENRY 45.23 20-FEB-18 45.23 Reconciled REALTORS 384428 08-FEB-18 BIOMAGIC INC 17,019.12 23-FEB-18 17,019.12 Reconciled 384429 08-FEB-18 BIOQUIP PRODUCTS 13-FEB-18 Reconciled INC 384430 08-FEB-18 BOWIE, ARNESON, 375,00 Negotiable WILES & GIANNONE 384431 08-FEB-18 BROOKFIELD 41,20 23-FEB-18 41.20 Reconciled RESIDENTIAL 08-FEB-18 BROWNING, SYLVIA 24.04 Negotiable BURKE, WILLIAMS & 384433 08-FEB-18 2,120.95 13-FEB-18 2,120.95 Reconciled SORENSEN, LLP BUSINESS CNTR DR 384434 08-FEB-10 11,802.68 15-FEB-18 11,802.68 Reconciled PARTNERS LP C WELLS PIPELINE 384435 08-FEB-18 2,138,84 15-FEB-18 2,138.84 Reconciled MATERIALS INC 384436 08-FEB-18 CALATLANTIC HOMES Negotiable IRWD Ledger Upgrade Payment Register For 01-FEB-18 To 28-FEB-18 Report Date: 28-FEB-2018 13:47 Branch : Los Angeles BANK: Bank of America N.A. Branch : Los Bank Account Currency: USD (US Dollar) Account: Checking AP and PR Page: Payment Currency: USD (US Dollar) Payment Type: All Display Supplier Address: No

		Supplier Name	Site Payment Amount	Cleared Date	Cleared Amount	Stat
Payment Document :	: IRWD CHECK					
384437	08-FEB-18	CALIFORNIA BARRICADE RENTAL, INC.	21,647.61	15-FEB-18	21,647.61	Reconciled
384438	08-FEB-18	CANON FINANCIAL SERVICES, INC	2,555.85	13-FEB-18	2,555.85	Reconciled
384439		CANON SOLUTIONS AMERICA, INC.	140.62	13-FEB-18	140.62	Reconciled
384440 384441		CARPENTER, JOHN CCL CONTRACTING	293.80 537,846.11	14-FEB-18 16-FEB-18		Reconciled Reconciled
384442	0θ-FEB-18	INC. CENTRAL COAST POWER SERVICES, LLC	12,435.00	15-FEB-18	12,435.00	Reconciled
384443	08-FEB-18	CERNIUS, WILLIAM	22.20	20-FEB-18	22,20	Reconciled
384444 384445	08-FEB-18 08-FEB-18	CHEM TECH	41.71 18,271.44	13-FEB-18 20-FEB-18	41.71 18,271.44	Reconciled Reconciled
384446	08-FEB-18	INTERNATIONAL INC CHO DESIGN ASSOCIATES, INC	2,600.00	12-FEB-18	2,600.00	Reconcile
384447	08-FEB-18	CITY OF IRVINE	181.50	13-FEB-18	181.50	Reconcile
384448		CITY OF LAKE FOREST	4,521.29	27-FEB-18	4,521.29	Reconcile
384449		CITY OF TUSTIN	250.00	12-FEB-10	250.00	Reconcile
384450 384451		CITY OF TUSTIN	33,091.60	14-FEB-18		Reconcile
384452		CIVIL SOURCE, INC. COMMERCIAL DOOR OF	23,895.00 4,212.59	22-FEB-18 12-FEB-18	23,895.00 4,212.59	Reconcile Reconcile
		ORANGE COUNTY, INC.	3,212,33	12 125 10	4,212.59	Reconcile
384453		CONDINO, VINCENT	41.97			Negotiabl
384454	08-FEB-18	CONSOLIDATED CONTRACTING	483.20	22-FEB-18	483.20	Reconcile
384455	08-FEB-18	SERVICES, INC. CONSUMERS PIPE & SUPPLY CO.	1,043.23	12-FEB-18	1,043.23	Reconcile
384456 384457		COUNTY OF ORANGE CRESCENT CHEMICAL	418.50 237.36	23-FEB-18 12-FEB-18	418.50 237,36	Reconcile Reconcile
384458	08-FEB-18	CO. CULLIGAN OF SANTA	4,011.40	14-FEB-18	4,011.40	Reconcile
384459	08-FEB-18	ANA DATASITE INC	6,832.00	20-FEB-18	6,832.00	Reconcile
	00-EED 10	DOD ENGINEEDING				
		DDB ENGINEERING, INC.	1,527.63	13-FEB-18	1,527.63	Reconcile
384461 384462 384463 RWD Ledger Upgrade	08-FEB-18 08-FEB-18	INC. DELL MARKETING LP DENALI WATER SOLUTIONS LLC DOUGLAS, ANDREW	1,527.63 22,000.29 5,124.82 68.26	13-FEB-18 15-FEB-18 15-FEB-18	1,527.63 22,000.29 5,124.82	Reconcile Reconcile Reconcile Negotiable FEB-2018 1
Payment Type	08-FEB-18 08-FEB-18 Ca N.A. Branc urrency: USD (US D	INC. DELL MARKETING LP DENALI WATER SOLUTIONS LLC DOUGLAS, ANDREW Payment Re h : Los Angeles ollar)	1,527.63 22,000.29 5,124.82 68.26 egister For 01-FEB-18 To Account: Check: Payment Curre Display Supplier Addi	13-FEB-18 15-FEB-18 15-FEB-18 20-FEB-18 ing AP and Prency: USD (cess: No	1,527.63 22,000.29 5,124.82 Report Date: 28- Report Page: 1	Reconciled Reconciled Reconciled
384461 384462 384463 RMD Ledger Upgrade BANK: Bank of Ameri Bank Account C Payment Type	08-FEB-18 08-FEB-18 Ca N.A. Brencurrency: USD (US D : All	INC. DELL MARKETING LP DENALI WATER SOLUTIONS LLC DOUGLAS, ANDREW Payment Re h : Los Angeles ollar) Supplier Name	1,527.63 22,000.29 5,124.82 68.26 egister For 01-FEB-18 To Account: Check: Payment Curre Display Supplier Addo	13-FEB-18 15-FEB-18 15-FEB-18 28-FEB-18 ing AP and Prency: USD (ress: No	1,527.63 22,000.29 5,124.82 Report Date: 28- Page: 1 US Dollar)	Reconcile Reconcile Reconcile Negotiabl FEB-2018 1 2
384461 384462 384463 RWD Ledger Upgrade BANK: Bank of Ameri Bank Account C Payment Type	08-FEB-18 08-FEB-18 Ca N.A. Brencurrency: USD (US D : All	INC. DELL MARKETING LP DENALI WATER SOLUTIONS LLC DOUGLAS, ANDREW Payment Re h : Los Angeles ollar) Supplier Name	1,527.63 22,000.29 5,124.82 68.26 egister For 01-FEB-18 To Account: Check: Payment Curre Display Supplier Addi	13-FEB-18 15-FEB-18 15-FEB-18 28-FEB-18 ing AP and Prency: USD (ress: No	1,527.63 22,000.29 5,124.82 Report Date: 28- Report Date: 28- Page: 1	Reconcile Reconcile Reconcile Negotiabl FEB-2018 1 2
384461 384463 RWD Ledger Upgrade BANK: Bank of Ameri Bank Account C Payment Type ayment Number Sequ	08-FEB-18 08-FEB-18 Ca N.A. Brencurrency: USD (US D : All ence Num Date TRWD CHECK 08-FEB-18	INC. DELL MARKETING LP DENALI WATER SOLUTIONS LLC DOUGLAS, ANDREW Payment Re h : Los Angeles ollar) Supplier Name	1,527.63 22,000.29 5,124.82 68.26 egister For 01-FEB-18 To Account: Check: Payment Curre Display Supplier Addo	13-FEB-18 15-FEB-18 15-FEB-18 28-FEB-18 ing AP and Prency: USD (ress: No	1,527.63 22,000.29 5,124.82 Report Date: 28- Page: 1 US Dollar)	Reconcile Reconcile Reconcile Negotiabl FEB-2018 1 2
384461 384462 384463 RND Ledger Upgrade BANK: Bank of Ameri Bank Account C Payment Type ayment Number Sequ	08-FEB-18 08-FEB-18 08-FEB-18 Ca N.A. Brancurrency: USD (US D : All ence Num Date IRWD CHECK 08-FEB-18 08-FEB-18	INC. DELL MARKETING LP DENALI WATER SOLUTIONS LLC DOUGLAS, ANDREW Payment Re h: Los Angeles ollar) Supplier Name DUZMAN, CHERYL EAGLE COMMUNITY CREDIT UNION EAGLE PRINT	1,527,63 22,000.29 5,124.82 68.26 egister For 01-FEB-18 To Account: Check: Payment Curr Display Supplier Addi	13-FEB-18 15-FEB-18 15-FEB-18 20-FEB-18 ing AP and Piency: USD (ress: No Cleared Date	1,527.63 22,000.29 5,124.82 Report Date: 28- Page: 1 US Dollar) Cleared Amount	Reconcile Reconcile Reconcile Negotiabl FEB-2018 1 2 Sta Negotiabl Reconcile
384461 384462 384463 3RMD Ledger Upgrade 3ANK: Bank of Ameri Bank Account C Payment Type ayment Number Sequ Payment Document: 384464 384466	08-FEB-18 08-FEB-18 06-FEB-18 06-FEB-18 ca N.A. Branc urrency: USD (US D : All ence Num Date IRWD CHECK 08-FEB-18 08-FEB-18	INC. DELL MARKETING LP DENALI WATER SOLUTIONS LLC DOUGLAS, ANDREW Payment Re h: Los Angeles ollar) Supplier Name DUZMAN, CHERYL EAGLE COMMUNITY CREDIT UNION EAGLE PRINT DYNAMICS	1,527,63 22,000.29 5,124.82 68.26 egister For 01-FEB-18 To Account: Check: Payment Curre Display Supplier Additional Site Payment Amount 46.46 415.99 5,827.23	13-FEB-18 15-FEB-18 20-FEB-18 20-FEB-18 20-FEB-18 103 AP and PP ency: USD (ess: No Cleared Date 15-FEB-18	1,527.63 22,000.29 5,124.82 Report Date: 28- Page: 1 US Dollar) Cleared Amount 415.99 5,827.23	Reconcile Reconcile Reconcile Negotiabl FEB-2018 1 2 Sta Negotiabl Reconcile
384461 384463 RWD Ledger Upgrade 3RNK: Bank of Ameri Bank Account C Payment Type syment Number Sequ Payment Document : 384464 384465 384466 384466	08-FEB-18 08-FEB-18 Ca N.A. Brencurrency: USD (US D : All ence Num Date IRWD CHECK 08-FEB-18 08-FEB-18 08-FEB-18 08-FEB-18	INC. DELL MARKETING LP DENALI WATER SOLUTIONS LLC DOUGLAS, ANDREW Payment Re h: Los Angeles ollar) Supplier Name DUZMAN, CHERYL EAGLE COMMUNITY CREDIT UNION EAGLE PRINT DYNAMICS ECO SERVICES LLC ELFSTEN, CHARLES	1,527,63 22,000.29 5,124.82 68.26 egister For 01-FEB-18 To Account: Check: Payment Curr Display Supplier Addi Site Payment Amount 46.46 415.99 5,827.23 5,235.06 346.84	13-FEB-18 15-FEB-18 28-FEB-18 20-FEB-18 ing AP and P) ency: USD (ress: No Cleared Date 15-FEB-18 12-FEB-18 14-FEB-18 13-FEB-18	1,527.63 22,000.29 5,124.82 Report Date: 28- Page: 1 US Dollar) Cleared Amount 415.99 5,827.23 5,235.06 346.84	Reconcile Reconcile Reconcile Negotiabl FEB-2018 1 2 Sta Negotiabl Reconcile Reconcile Reconcile Reconcile
384461 384463 3RMD Ledger Upgrade BANK: Bank of Ameri Bank Account C Payment Type ayment Number Sequ Payment Document: 384464 384466 384466 384467 384468	08-FEB-18 08-FEB-18 08-FEB-18 Ca N.A. Brancurrency: USD (US D : All ence Num Date IRWD CHECK 08-FEB-18 08-FEB-18 08-FEB-18 08-FEB-18 08-FEB-18 08-FEB-18	INC. DELL MARKETING LP DENALI WATER SOLUTIONS LLC DOUGLAS, ANDREW Payment Re h: Los Angeles ollar) Supplier Name DUZMAN, CHERYL EAGLE COMMUNITY CREDIT UNION EAGLE PRINT DYNAMICS ECO SERVICES LLC ELFSTEN, CHARLES EMPLOYEE BENEFIT SPECIALISTS, INC. ENVIRONMENTAL	1,527,63 22,000.29 5,124.82 68.26 egister For 01-FEB-18 To Account: Check: Payment Curre Display Supplier Add: 63:10 646.46 6415.99 5,827.23 6,235.06	13-FEB-18 15-FEB-18 15-FEB-18 20-FEB-18 Ing AP and Plency: USD (ress: No Cleared Date 	1,527.63 22,000.29 5,124.82 Report Date: 28- Page: 1 US Dollar) Cleared Amount 415.99 5,827.23 5,235.06	Reconcile Reconcile Reconcile Negotiabl FEB-2018 1 2 Sta Negotiabl Reconcile Reconcile Reconcile Reconcile
384461 384463 3RMD Ledger Upgrade BANK: Bank of Ameri Bank Account C Payment Type Ayment Number Sequ Payment Document: 384464 384466 384466 384467 384469	08-FEB-18 08-FEB-18 08-FEB-18 Ca N.A. Brancurrency: USD (US D : All ence Num Date IRWD CHECK 08-FEB-18 08-FEB-18 08-FEB-18 08-FEB-18 08-FEB-18 08-FEB-18	INC. DELL MARKETING LP DENALI WATER SOLUTIONS LLC DOUGLAS, ANDREW Payment Re h: Los Angeles ollar) Supplier Name DUZMAN, CHERYL EAGLE COMMUNITY CREDIT UNION EAGLE PRINT DYNAMICS ECO SERVICES LLC ELFSTEN, CHARLES EMPLOYEE BENEFIT SPECIALISTS, INC. ENVIRONMENTAL RESOURCE ASSOCIATES	1,527,63 22,000.29 5,124.82 68.26 egister For 01-FEB-18 To Account: Check: Payment Curre Display Supplier Adduction Adduction Adduction Account Amount 46.46 415.99 5,827.23 5,235.06 346.84 1,165.00 257.48	13-FEB-18 15-FEB-18 20-FEB-18	1,527.63 22,000.29 5,124.82 Report Date: 28- Page: 1 US Dollar) Cleared Amount 415.99 5,827.23 5,235.06 346.84 1,165.00 257.48	Reconcile Reconcile Reconcile Sta Negotiabl Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile
384461 384462 384463 RND Ledger Upgrade BANK: Bank of Ameri Bank Account C Payment Type ayment Number Sequ Payment Document: 384464 384466 384467 384468 384470	08-FEB-18 08-FEB-18 06-FEB-18 06-FEB-18 Ca N.A. Branc urrency: USD (US D : All ence Num Date IRWD CHECK 08-FEB-18 08-FEB-18 08-FEB-18 08-FEB-18 08-FEB-18 08-FEB-18	INC. DELL MARKETING LP DENALI WATER SOLUTIONS LLC DOUGLAS, ANDREW Payment Re h: Los Angeles ollar) Supplier Name DUZMAN, CHERYL EAGLE COMMUNITY CREDIT UNION EAGLE PRINT DYNAMICS ECO SERVICES LLC ELFSTEN, CHARLES EMPLOYEE BENEFIT SPECIALISTS, INC. ENVIRONMENTAL RESOURCE ASSOCIATES EVANTEC CORPORATION	1,527,63 22,000.29 5,124.82 68.26 egister For 01-FEB-18 To Account: Check: Payment Curre Display Supplier Additional Site Payment Amount 46.46 415.99 5,827.23 5,235.06 346.84 1,165.00 257.48	13-FEB-18 15-FEB-18 15-FEB-18 20-FEB-18 20-FEB-18 103 AP and PI ress: No Cleared Date 15-FEB-18 12-FEB-18 14-FEB-18 13-FEB-18 14-FEB-18 13-FEB-18 14-FEB-18	1,527.63 22,000.29 5,124.82 Report Date: 28- Page: 1 US Dollar) Cleared Amount 415.99 5,827.23 5,235.06 346.84 1,165.00 257.48 708.93	Reconcile Reconcile Reconcile Negotiabl FEB-2018 1 2 Sta Negotiabl Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile
384461 384463 RMD Ledger Upgrade BANK: Bank of Ameri Bank Account C Payment Type ayment Number Sequ Payment Document : 384464 384465 384466 384467 384468 384470	08-FEB-18 08-FEB-18 08-FEB-18 Ca N.A. Brancurrency: USD (US D : All ence Num Date IRWD CHECK 08-FEB-18 08-FEB-18 08-FEB-18 08-FEB-18 08-FEB-18 08-FEB-18 08-FEB-18	INC. DELL MARKETING LP DENALI WATER SOLUTIONS LLC DOUGLAS, ANDREW Payment Re h: Los Angeles ollar) Supplier Name DUZMAN, CHERYL EAGLE COMMUNITY CREDIT UNION EAGLE PRINT DYNAMICS ECO SERVICES LLC ELFSTEN, CHARLES EMPLOYEE BENEFIT SPECIALISTS, INC. ENVIRONMENTAL RESOURCE ASSOCIATES EVANTEC	1,527,63 22,000.29 5,124.82 68.26 egister For 01-FEB-18 To Account: Check: Payment Curr Display Supplier Addi Site Payment Amount 46.46 415.99 5,827.23 5,235.06 346.84 1,165.00 257.48 708.93 349.52	13-FEB-18 15-FEB-18 15-FEB-18 20-FEB-18 20-FEB-18 20-FEB-18 ing AP and P) ency: USD (ress: No Cleared Date	1,527.63 22,000.29 5,124.82 Report Date: 28- Page: 1 US Dollar) Cleared Amount 415.99 5,827.23 5,235.06 346.84 1,165.00 257.48 708.93 349.52	Reconcile Reconcile Reconcile Reconcile Negotiabl FEB-2018 1 2 Sta Negotiabl Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile
384461 384463 RND Ledger Upgrade BANK: Bank of Ameri Bank Account C Payment Type ayment Number Sequ Payment Document: 384464 384465 384466 384467 384468 384470	08-FEB-18	INC. DELL MARKETING LP DENALI WATER SOLUTIONS LLC DOUGLAS, ANDREW Payment Re h: Los Angeles ollar) Supplier Name DUZMAN, CHERYL EAGLE COMMUNITY CREDIT UNION EAGLE PRINT DYNAMICS ECO SERVICES LLC ELIFSTEN, CHARLES EMPLOYEE BENEFIT SPECIALISTS, INC. ENVIRONMENTAL RESOURCE ASSOCIATES EVANTEC CORPORATION EXECUTIVE LIGHTING & ELECTRIC FAIRBANK, MASLIN, MAULLIN, METZ & ASSOC. INC.	1,527,63 22,000.29 5,124.82 68.26 egister For 01-FEB-18 To Account: Check: Payment Curre Display Supplier Additional Site Payment Amount 46.46 415.99 5,827.23 5,235.06 346.84 1,165.00 257.48	13-FEB-18 15-FEB-18 15-FEB-18 20-FEB-18 20-FEB-18 103 AP and PI ress: No Cleared Date 15-FEB-18 12-FEB-18 14-FEB-18 13-FEB-18 14-FEB-18 13-FEB-18 14-FEB-18	1,527.63 22,000.29 5,124.82 Report Date: 28- Page: 1 US Dollar) Cleared Amount 415.99 5,827.23 5,235.06 346.84 1,165.00 257.48 708.93	Reconcile Reconcile Reconcile Reconcile Negotiabl FEB-2018 1 2 Sta Negotiabl Reconcile
384461 384462 384463 RWD Ledger Upgrade BANK: Bank of Ameri Bank Account C Payment Type ayment Number Sequ Payment Document: 384464 384466 384467 384469 384470 384471 384472 384473	08-FEB-18	INC. DELL MARKETING LP DENALI WATER SOLUTIONS LLC DOUGLAS, ANDREW Payment Re h: Los Angeles ollar) Supplier Name DUZMAN, CHERYL EAGLE COMMUNITY CREDIT UNION EAGLE PRINT DYNAMICS ECO SERVICES LLC ELFSTEN, CHARLES EMPLOYEE BENEFIT SPECIALISTS, INC. ENVIRONMENTAL RESOURCE ASSOCIATES EVANTEC CORPORATION EXECUTIVE LIGHTING E ELECTRIC FAIRBANK, MASLIN, MAULLIN, METZ & ASSOC. INC. FARIZAR, KATTI FARRELL &	1,527,63 22,000.29 5,124.82 68.26 egister For 01-FEB-18 To Account: Check: Payment Curr Display Supplier Addi Site Payment Amount 46.46 415.99 5,827.23 5,235.06 346.84 1,165.00 257.48 708.93 349.52	13-FEB-18 15-FEB-18 15-FEB-18 20-FEB-18 20-FEB-18 20-FEB-18 ing AP and P) ency: USD (ress: No Cleared Date	1,527.63 22,000.29 5,124.82 Report Date: 28- Page: 1 US Dollar) Cleared Amount 415.99 5,827.23 5,235.06 346.84 1,165.00 257.48 708.93 349.52	Reconciled
384461 384463 RWD Ledger Upgrade BANK: Bank of Ameri Bank Account C Payment Type	08-FEB-18 08-FEB-18 06-FEB-18 06-FEB-18 08-FEB-18	INC. DELL MARKETING LP DENALI WATER SOLUTIONS LLC DOUGLAS, ANDREW Payment Re h: Los Angeles ollar) Supplier Name DUZMAN, CHERYL EAGLE COMMUNITY CREDIT UNION EAGLE PRINT DYNAMICS ECO SERVICES LLC ELIFSTEN, CHARLES EMPLOYEE BENEFIT SPECIALISTS, INC. ENVIRONMENTAL RESOURCE ASSOCIATES EVANTEC CORPORATION EXECUTIVE LIGHTING & ELECTRIC FAIRBANK, MASLIN, MAULLIN, METZ & ASSOC. INC. FARIZAR, KATTI FARRELL & ASSOCIATES FEDEX FIDELITY SECURITY LIFE INSURANCE	1,527,63 22,000.29 5,124.82 68.26 egister For 01-FEB-18 To Account: Check: Payment Curre Display Supplier Add Site Payment Amount 46.46 415.99 5,827.23 5,235.06 346.84 1,165.00 257.48 708.93 349.52 21,080.00	13-FEB-18 15-FEB-18 20-FEB-18 20-FEB-18 20-FEB-18 20-FEB-18 10-FEB-18 11-FEB-18 12-FEB-18 13-FEB-18 13-FEB-18 14-FEB-18 13-FEB-18 14-FEB-18 15-FEB-18 15-FEB-18 16-FEB-18	1,527.63 22,000.29 5,124.82 Report Date: 28-Page: 1 US Dollar) Cleared Amount 415.99 5,827.23 5,235.06 346.84 1,165.00 257.48 708.93 349.52 21,080.00 34.33	Reconciled Reconciled Reconciled Negotiable FEB-2018 1:
384461 384463 RND Ledger Upgrade BANK: Bank of Ameri Bank Account C Payment Type ayment Number Sequ Payment Document: 384464 384466 384467 384470 384471 384472 384473 384474	08-FEB-18 08-FEB-18 06-FEB-18 06-FEB-18 08-FEB-18	INC. DELL MARKETING LP DENALI WATER SOLUTIONS LLC DOUGLAS, ANDREW Payment Re h: Los Angeles ollar) Supplier Name DUZMAN, CHERYL EAGLE COMMUNITY CREDIT UNION EAGLE PRINT DYNAMICS ECO SERVICES LLC ELFSTEN, CHARLES EMPLOYEE BENEFIT SPECIALISTS, INC. ENVIRONMENTAL RESOURCE ASSOCIATES EVANTEC CORPORATION EXECUTIVE LIGHTING ELECTRIC FAIRBANK, MASLIN, MAULLIN, METZ & ASSOC. INC. FARIZAR, KATTI FARRELL & ASSOCIATES FEDEX FIDELITY SECURITY LIFE INSURANCE COMPANY FIRST CHOICE	1,527,63 22,000.29 5,124.82 68.26 egister For 01-FEB-18 To Account: Check: Payment Curre Display Supplier Add Site Payment Amount 46.46 415.99 5,827.23 5,235.06 346.84 1,165.00 257.48 708.93 349.52 21,080.00 34.33 215.70 354.66	13-FEB-18 15-FEB-18 15-FEB-18 20-FEB-18 20-FEB-18 10-FEB-18 10-FEB-18 11-FEB-18	1,527.63 22,000.29 5,124.82 Report Date: 28- Page: 1 US Dollar) Cleared Amount 415.99 5,827.23 5,235.06 346.84 1,165.00 257.48 708.93 349.52 21,080.00 34.33 215.70 354.66	Reconciled
384461 384463 RND Ledger Upgrade BANK: Bank of Ameri Bank Account C Payment Type ayment Number Sequ Payment Document: 384464 384466 384467 384470 384471 384472 384473 384474 384475 384476 384476 384476	08-FEB-18	INC. DELL MARKETING LP DENALI WATER SOLUTIONS LLC DOUGLAS, ANDREW Payment Re h: Los Angeles ollar) Supplier Name DUZMAN, CHERYL EAGLE COMMUNITY CREDIT UNION EAGLE PRINT DYNAMICS ECO SERVICES LLC ELFSTEN, CHARLES EMPLOYEE BENEFIT SPECIALISTS, INC. ENVIRONMENTAL RESOURCE ASSOCIATES EVANTEC CORPORATION EXECUTIVE LIGHTING ELECTRIC FAIRBANK, MASLIN, MAULLIN, METZ & ASSOC. INC. FARIZAR, KATTI FARRELL & ASSOCIATES FEDEX FIDELITY SECURITY LIFE INSURANCE COMPANY	1,527,63 22,000.29 5,124.82 68.26 egister For 01-FEB-18 To Account: Check: Payment Curre Display Supplier Add Site Payment Amount 46.46 415.99 5,827.23 5,235.06 346.84 1,165.00 257.48 708.93 349.52 21,080.00 34.33 215.70 354.66 6,821.69	13-FEB-18 15-FEB-18 15-FEB-18 20-FEB-18 10 AP and PI ency: USD (ress: No Cleared Date 15-FEB-18 12-FEB-18 13-FEB-18 13-FEB-18 14-FEB-18 13-FEB-18 14-FEB-18 15-FEB-18 12-FEB-18 12-FEB-18 12-FEB-18 12-FEB-18 13-FEB-18 12-FEB-18	1,527.63 22,000.29 5,124.82 Report Date: 28-Page: 1 US Dollar) Cleared Amount 415.99 5,827.23 5,235.06 346.84 1,165.00 257.48 708.93 349.52 21,080.00 34.33 215.70 354.66 6,821.69	Reconcilee

384481		08-FEB-18			15-FEB-18	17,514.00	Reconciled
384482		08-FEB-18	ENGINEERING, INC. GARCIA, LEONEL B		16-FEB-18	89,02	Reconciled
384483 384484		08-FEB-18	GAREB, HAIFA	89.02 8.72 21,474.19	22-FEB-18	8.72	Reconciled
			INC.				
384485 384486		08-FEB-18	GHD INC. GRAINGER	8,410.75 3,147.76 14,030.00	12-FEB-18 12-FEB-18	8,410.75 3,147.76	Reconciled Reconciled
304487		08-FEB-18	GRAVITEC SYSTEMS, INC	14,030.00	16-FEB-18	14,030.00	Reconciled
384488		08-FEB-18	GREAT PACIFIC	389.41	12-FEB-18	389.41	Reconciled
384489		08-FEB-18	EQUIPMENT INC GRIFFIN, MICKEY Payment	56.51	21-FEB-18	56.51	Reconciled
IRWD Ledger U BANK: Bank o	pgrade f America N.A.	Branc	Payment	Register For 01-FEB-18 To	0.0		
Bank Ac	count Currency:	USD (US I	Dollar)	Register for 01-feb-18 To Account: Check Payment Curr Display Supplier Add	ency: USD (US Dollar)	13
Payme	nt Type: All			Display Supplier Add	ress: No		
					Cleared		
Payment Numbe	r Sequence Num	Date	Supplier Name	Site Payment Amount	Date	Cleared Amount	Status
Payment Doc	ument : IRWD CH	ECK					
384490		08-FEB-18	H2O INNOVATION USA	2,633.65	13-FEB-18	2,633,65	Reconciled
384491			INC HACH COMPANY				
384492		08-FEB-18	HARRINGTON	36,870.88 2,773.91	20-FEB-18 12-FEB-18		Reconciled Reconciled
			INDUSTRIAL PLASTICS LLC				
384493		08-FEB-18	HAZEN AND SAWYER	1,126.13	14-FEB-18	1,126.13	Reconciled
384494 384495		08-FEB-18	HELPMATES STAFFING	1,126.13 11,804.31 22,417.00	16-FEB-18 14-FEB-18	1,126.13 11,804.31 22,417.00	Reconciled Reconciled
384496			SERVICES HIDDEN CANYON	275.31	14-FEB-18		Reconciled
			COMMUNITY	670101	17 110 10	273.31	Reconciled
384497		08-FEB-18	ASSOCIATION HILL BROTHERS	21,257.51	16-FEB-18	21,257.51	Reconciled
384498		08-FEB-18	CHEMICAL COMPANY		14-FEB-18		
384499		00-FEB-18	HOME DEPOT USA INC				Negotiable
384500			HUMANA INSURANCE COMPANY	73.80	13-FEB-18	73,80	Reconciled
384501 384502		08-FEB-18	HUYNH, THUY LIEN HWANG, JUNG YOUNG HYDROTECH ELECTRIC	67.83 39.02			Negotiable
384503		08-FEB-18	HYDROTECH ELECTRIC	38,294.00	15-FEB-18	38,294.00	Negotiable Reconciled
384504 384505		08-FEB-18	IRVINE PACIFIC	39.02 38,294.00 294.72 2,347.65	13-FEB-18	38,294.00 294.72 2,347.65	Reconciled
			SUPPLY INC				
384506 384507		08-FEB-18	JIG CONSULTANTS JOHN MICHAEL COVAS K. HOVNANIAN	1,050.05 208.70	20-FEB-18	1,050.05	Negotiable
384508 384509			K. HOVNANIAN KAYUGA SOLUTION		14-FEB-18		Reconciled
			INC		16-FEB-18		Reconciled
384510 384511			KENEFICK, DONNA KENT & AMY	37.99 76,470.40	14-FEB-18 15-FEB-18	37.99 76,470.40	Reconciled Reconciled
384512			DAHLBERG KENT, OLGA				
384513		00-FFB-10	KIM TORN	294,53 23,22			
384514		08-FEB-18	KIM, YOUNGSUN	45.47			Reconciled
384515 384516		08-FEB-18	KIM, JOHN KIM, YOUNGSUN KONECRANES INC KOU, KUNHAI LAGUNA BEACH	402.50 46.39	13-FEB-18	402.50	Reconciled Negotiable
384517		08-FEB-18		3,066.86	13-FEB-18	3,066.86	
			COUNTY WATER DISTRICT				
384518		08-FEB-18	LAND-LORD MANAGEMENT CO	40.13	13-FEB-18	40.13	Reconciled
384519		08-FEB-18	LANDCARE HOLDINGS, INC.	17,989.16	20-FEB-18	17,989.16	Reconciled
384520		00-FEB-18	LENNAR HOMES	81,32	13-FEB-18	81.32	Reconciled
IRWD Ledger Up BANK: Bank of	ograde f America N.A.	Branc	Payment 1 h : Los Angeles	Register For 01-FEB-18 To	28-FEB-18	Report Date: 28 Report Date: 28	-FEB-2018 13:47
Bank Acc	count Currency:	USD (US D	ollar)	Payment Curre	ency: USD (14
Paymer	nt Type: All			Display Supplier Add	ress: No		
					Cleared		
Payment Number	Sequence Num	Date	Supplier Name	Site Payment Amount	Date	Cleared Amount	
	ment : IRWD CHE					*************	
384521		08-FFB-18	LEONARD CHAIDEZ	775.00	13-FEB-18	775 00	P
			TREE SERVICE			775.00	
384522		U8-FEB-18	LGBD INVESTMENTS,	43.92	16-FEB-18	43.92	Reconciled
384523 384524		08-FEB-18		474.68	22_000 10	000 ==	Negotiable
384525		08-FEB-18	MAAS, BRIAN	38.46			
384526 384527			MAILFINANCE INC MARSHALL, PHYLLIS			38.46 10,909.74 73.50	Reconciled
			A				1100011011101
384528			MC MASTER CARR SUPPLY CO	715.69	13-FEB-18	715.69	Reconciled
384529 384530			MCCARRELL, KATHY MCR TECHNOLOGIES	127.85 23,454.98		127.85 23,454.98	
		-2 FDD 10	IDOMNOHOGIEG	23,434.90	TO-1FD-18	23,434.98	Reconciled

384531		08-FEB-18			400.00	14-FEB-18	400.00	Reconciled
384532		08-FEB-18	CORPORATION MENDES, PARI		162.57			Negotiable
384533		08-FEB-18	MOEEL, GULHAN		41.12			Negotiable
384534 384535		08-FEB-18			1,984.50 547.58	12-FEB-18 15-FEB-16	1,984.50 547.58	Reconciled Reconciled
384536		08-FEB-18	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY		149,216.70	14-FEB-18	149,216.70	Reconciled
84537 84538		08-FEB-18	NAJAFI, MEHRAN NATIONAL READY		45.75 1,791.54	15-FEB-18 12-FEB-18	45.75 1,791.54	Reconciled Reconciled
84539		08-FEB-18	MIXED CONCRETE CO. NATURALWELL, LLC		1,402.50	12-FEB-18	1,402.50	Reconciled
4540		08-FEB-18	NATURES IMAGE INC		8,944.00	12-FEB-18	8,944.00	Reconciled
34541 34542		08-FEB-18	NCH CORPORATION NCL OF WISCONSIN INC		699.81 93.70	14-FEB-18 14-FEB-18	699.81 93.70	Reconciled Reconciled
4543		08-FEB-18			310,25	14-FEB-18	310.25	Reconciled
34544 34545		08-FEB-18 08-FEB-18	NORMAN A. OLSSON		8,470.25 190,902.50	12-FEB-18 16-FEB-18	8,470.25 190,902.50	Reconciled Reconciled
4546		08-FEB-18	CONSTRUCTION, INC. O.C. SUPERIOR CUSTOM CLEANING		4,640.00	12-FEB-18	4,640.00	Reconciled
4547 4548		08-FEB-18 08-FEB-18	SERVICES OLIN CORPORATION ONESOURCE		9,695.55 129.26	13-FEB-18 12-FEB-18	9,695.55 129.26	Reconciled Reconciled
34549		08-FEB-18	DISTRIBUTORS LLC ORACLE AMERICA,		14,067.90	15-FEB-18	14,067.90	Reconciled
Bank Acco	America N.A.		INC. Payment ch : Los Angeles Dollar)		01-FEB-18 To Account: Check Payment Curr ay Supplier Add	ing AP and PR ency: USD (-FEB-2018 13:4 15
						Cleared		
	Sequence Num		Supplier Name	Site	Payment Amount		Cleared Amount	Status
	nent : IRWD CH							:3:5:5:5:5
84550		08-FEB-18	ORANGE COUNTY AUTO)	834.10	12-FEB-18	834.10	Reconciled
34551		08-FEB-18	PARTS CO ORANGE COUNTY		750.00	27-FEB-10	750.00	Reconciled
34552		08-FEB-18	COASTKEEPER ORANGE COUNTY SANITATION		2,275,920.25	15-FEB-18	2,275,920.25	Reconciled
84553		08-FEB-18	DISTRICT ORANGE COUNTY		66.95	13-FEB-18	66.95	Reconciled
4554		08-FEB-18	TREASURER PACIFIC PARTS &		5,140.08	12-FEB-10	5,140.08	Reconciled
4555		08-FEB-18	CONTROLS INC PACRIM ENGINEERING INC.	;	2,835.00	12-FEB-18	2,835.00	Reconciled
34556		08-FEB-18	PAPER DEPOT DOCUMENT		973.35	22-FEB-18	973.35	Reconciled
84557 84558			DESTRUCTION LLC PARKHOUSE TIRE INC PASCAL & LUDWIG	:	11,218.76 7,417.63	16-FEB-18 12-FEB-18	11,218.76 7,417.63	Reconciled Reconciled
84559		08-FEB-18	CONSTRUCTORS PASCAL & LUDWIG		136,397.57	15-FEB-18	136,397.57	Reconciled
34560		08-FEB-18			400.00	13-FEB-18	400.00	Reconciled
4561		08-FEB-18	ASSOCIATES, INC. PENSKE TRUCK		158.25	12-FEB-18	158,25	Reconciled
14562		08-FEB-18		ı	96,219.64	20-FEB-18	96,219.64	Reconciled
34563		08-FEB-18	SCIENCES INC PMC ENGINEERING		2,490.75	12-FEB-18	2,490.75	Reconciled
94564			LLC. POLLARDWATER.COM		859.84	13-FEB-18	859.84	Reconciled
94565 94566		08-FEB-18	DISTRIBUTION INC		686.50 297.12	13-FEB-18 14-FEB-18	686.50 297.12	Reconciled Reconciled
34567		08-FEB-18	ENVIRONMENTAL CONTAINERS QUINN RENTAL		555.00	12-FEB-18	555.00	Reconciled
34568		08-FEB-18	SERVICES		27,059.12	14-FEB-10	27,059.12	Reconciled
34569		08-FEB-18	ENGINEERING INC		304.54		,	Negotiable
34570 34571 34572		08-FEB-18 08-FEB-18			361.36 59.58 991.20	20-FEB-18 16-FEB-18	59.58 991.20	Negotiable Reconciled Reconciled
WD Ledger Upg ANK: Bank of Bank Acco		Brane	ASSISTANCE INC Payment ch : Los Angeles		01-FEB-18 To Account: Check	28-FEB-18 ing AP and PR ency: USD (Report Date: 28- Page:	
ayment Nu m ber	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status

	nt : IRWD CHECK					
384573	00-FEB-18	REFRIGERATION SUPPLIES	15.89	12-FEB-18	15.89	Reconciled
384574 384575		DISTRIBUTOR REGENCY CENTERS RELIANCE SAFETY	611.35 16,297.84	20-FEB-18	16,297.84	Negotiable Reconciled
384576	08-FEB-18	CONSULTANTS, INC. RESILIENT COMMUNICATIONS	22,800.00			Negotiable
384577	08-FEB-18	INC. RICHMOND AMERICAN HOMES OF MARYLAND,	38.74			Negotiable
384578	08-FEB-18	INC RICHMOND AMERICAN HOMES OF MARYLAND,	174.70			Negotiable
384579	08-FEB-18	INC RINCON TRUCK CENTER INC.	607.33	13-FEB-18	607.33	Reconciled
384580	08-FEB-18	RINGCLEAR LLC	191.40	14-FEB-18	191.40	Reconciled
384581		ROGERS, JOHN W	45.72	15-FEB-18	45.72	Reconciled
384582	08-FEB-18	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT	113,625.00	23-FEB-18	113,625.00	Reconciled
384583	08-FEB-18	ROYALTY CARPET MILLS	115.65	15-FEB-18	115.65	Reconciled
384584	00-FEB-18	RS HUGHES COMPANY,	1,255.29	13-FEB-18	1,255.29	Reconciled
384585	08-FEB-18	INC. SAN CARLO	36.05			Negotiable
384586	08-FEB-18	APARTMENTS SAN MARCO	36.05			Negotiable
		APARTMENTS				nogociabio
384587		SAN MARINO APTS	487.36			Negotiable
384588 384589		SAN REMO APTS SANTA ANA BLUE	211.47 928.92	20-FEB-18	928,92	Negotiable Reconciled
		PRINT	550152	20 122 10	320.32	Reconciled
384590	08-FEB-18	SANTA MARGARITA FORD	449.56	13-FEB-18	449.56	Reconciled
384591	08-FEB-18	SAWAYA, TINA	35.02	15-FEB-18	35,02	Reconciled
384592	08-FEB-18					Negotiable
384593	08-FEB-18	SEAL ANALYTICAL INC	1,231,48	12-FEB-10	1,231.48	Reconciled
384594	08-FEB-18	SHAMROCK SUPPLY CO	32.19	13-FEB-18	32.19	Reconciled
384595	08-FEB-18	SHEA HOMES, LIMITED PARTNERSHIP	20.60			Negotiable
IRWD Ledger Upgra BANK: Bank of Ar Bank Accour Payment 1	age merica N.A. Branc nt Currency: USD (US E Type: All	rayment in the control of the contro	350.73 Register For 01-FEB-18 To Account: Check Payment Curr Display Supplier Add	IN THE STATE OF TH	Page:	-FEB-2018 13:47
Payment Number	Sequence Num Date	Supplier Name	Site Payment Amount	Cleared Date	Cleared Amount	Status
	nt : IRWD CHECK					
384597	08-FEB-18	SIEMENS INDUSTRY	3,300.00	12-FEB-18	3,300.00	Reconciled
384598 384599		SILVA, THERESA SIMI VALLEY LANDFILL AND	71.78 1,020.26	13-FEB-18	1,020.26	Negotiable Reconciled
204600	00 7777 10	RECYCLING CENTER				
384600 384601		SIMON VENTURES LLC SINGH, DALWINDER	155.23 65.82	13-FEB-18 22-FEB-18	155.23 65.82	Reconciled Reconciled
384602		SIRIUS COMPUTER	40,230.85	20-FEB-18	40,230.85	Reconciled
384603 384604	08-FEB-18 08-FEB-18		688.49 40.00	12-FEB-18 12-FEB-18	688.49 40.00	Reconciled Reconciled
384605	08-FEB-18	CO.	190,652.18	13-FEB-18	190,652.18	Reconciled
00.4505		CALIFORNIA EDISON COMPANY				
384606	08-FEB-18	CALIFORNIA SECURITY CENTERS,	9.70	14-FEB-18	9.70	Reconciled
384607	08-FEB-18		1,583.65	23-FEB-18	1,583.65	Reconciled
384608	00-FEB-18	LUBRICANTS LLC SPARLING INSTRUMENTS LLC	1,311.18	12-FEB-18	1,311.18	Reconciled
384609	08-FEB-18		169.57	13-FEB-18	169.57	Reconciled
384610 384611		ST JOHN KNITS STANDARD REGISTER,	581.90° 2,566.87	13-FEB-18 13-FEB-18	581.90 2,566.87	Reconciled Reconciled
		THIC				
384612	08-FEB-18	INC. STANFORD COURT	14.67			Negotiable
384612 384613	08-FEB-18	STANFORD COURT APARTMENTS STATE FARM	14.67 22.54			Negotiable Negotiable
	08-FEB-18 08-FEB-18	STANFORD COURT APARTMENTS STATE FARM INSURANCE				Negotiable
384613	08-FEB-18 08-FEB-18	STANFORD COURT APARTMENTS STATE FARM	22.54			

Payment Document : IRWD CHECK

384616	08-FEB-18	SULLY-MILLER		202,557.31	15-FEB-18	202,557.31	Reconciled
384617	08-FEB-18	CONTRACTING CO. SUNSHINE SUPPLY		5,469.39	12-FEB-18	5,469.39	Reconciled
384618	08-FEB-18	COMPANY, INC. SWAINS ELECTRIC		6,681.60	21-FEB-18	6,681.60	Reconciled
384619	08-FEB-18	MOTOR SERVICE TALLEY INC		523,61	13-FEB-18	F22 61	Dagar - (1 - 1
384620 384621	08-FEB-18	TAMURA, R GRIFFIN		41.57			Reconciled Negotiable
		TASSIN SCIENTIFIC SERVICES, LLC.		1,987.50	14-FEB-18	1,987.50	Reconciled
384622 IRWD Ledger Upgrade	08-FEB-18	TEKDRAULICS	Register For	9,188.28 01-FEB-18 To	22-FEB-18		
BANK: Bank of America N.A. Bank Account Currency: Payment Type: All	BrandusD (US)	ch : Los Angeles		Account: Check	ing AP and I ency: USD	Report Date: 28 PR Page: (US Dollar)	3-FEB-2016 13:47 18
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Payment Number Sequence Num	Date	Supplier Name	Site	Payment Amount	Date	Cleared Amount	Status
Payment Document : IRWD CH							
384623	08-FEB-18	TESTAMERICA LABORATORIES, INC		3,104.85	14-FEB-18	3,104.85	Reconciled
384624 384625		TETRA TECH, INC THE NEW HOME		9,037.00 655.41	13-FEB-18	9,037.00	Reconciled
	40 122 20	COMPANY SOUTHERN CALIFORNIA LLC		033,41			Negotiable
384626		THERRIEN, BRIAN		163.17			Negotiable
384627	08-FEB-18	THYSSENKRUPP ELEVATOR CORPORATION		191.94	12-FEB-18	191.94	Reconciled
384628		TRAN, YEN		51.26	15-FEB-18	51.26	Reconciled
384629		TRENCH SHORING COMPANY		873.99	14-FEB-18	873,99	Reconciled
384630		TRI COUNTY PUMP COMPANY		19,287.13	16-FEB-18	19,287.13	Reconciled
384631	08-FEB-18	TROPICAL PLAZA NURSERY INC		2,400.00	12-FEB-18	2,400.00	Reconciled
384632 384633		TRUCPARCO TYCO INTEGRATED		2,382.77 53.82	16-FEB-18 12-FEB-18	2,382.77	Reconciled
384634		SECURITY, LLC					Reconciled
384635		ULTRA SCIENTIFIC UNDERGROUND SERVICE ALERT OF SOUTHERN		73.57 1,693.00	21-FEB-18 16-FEB-18	73.57 1,693.00	Reconciled Reconciled
384636	08-FEB-18	CALIFORNIA UNITED HEALTHCARE		245.85	13-FEB-18	245.85	Reconciled
384637	08-FEB-18	INSURANCE COMPANY UNITED PARCEL		43.33	13-FEB-18	43.33	Reconciled
384638	08-FEB-18	SERVICE INC UNITED WATER		58,063.97	20-FEB-18	58,063.97	Reconciled
384639	08-FEB-18	WORKS, INC. UTICK, LEIANNA		71.66	26-FEB-18	71.66	Reconciled
384640		VALLEY CREST LANDSCAPE		1,662.41		,1.00	Negotiable
384641	08-FEB-18	COMPANIES VALMONT COMPOSITE		994.41	13-FEB-18	994.41	Reconciled
384642	08-FEB-18	STRUCTURES, INC. VERIZON WIRELESS		3,106.03	13-FEB-10	3,106.03	Reconciled
384643	08-FEB-18	SERVICES LLC VILLEGAS, MIRELLA		306.47	15-FEB-18	306.47	Reconciled
384644		VULCAN MATERIALS COMPANY		2,796.18	12-FEB-18	2,796.18	Reconciled
384645	08-FEB-18	VWR INTERNATIONAL, LLC		545.21	13-FEB-10	545.21	Reconciled
384646	08-FEB-18	WACO FILTERS CORPORATION		8,549.53	15-FEB-18	8,549,53	Reconciled
IRWD Ledger Upgrade BANK: Bank of America N.A. Bank Account Currency: Payment Type: All	Branc USD (US D	Payment h : Los Angeles		01-FEB-18 To Account: Checki Payment Curre y Supplier Addr	ng AP and P ncy: USD (-FEB-2018 13:47 19
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384647		WANG, NAN		34.27			Negotiable
384648 384649	08-FEB-18	WANG, SPRING WARMINGTON HOMES		20.42 57.16	23-FEB-18	20.42	Reconciled Negotiable
384650	08-FEB-18	WASTE MANAGEMENT OF ORANGE COUNTY		5,315.50	13-FEB-18	5,315.50	Reconciled
384651	08-FEB-18	WATERSMART SOFTWARE, INC		13,597.50	16-FEB-18	13,597.50	Reconciled
384652	08-FEB-18	WAXIE'S ENTERPRISES, INC		39.74	12-FEB-18	39.74	Reconciled
	08-FEB-18 08-FEB-18	WEAVER, LARRY W WECK LABORATORIES		35.44 89.00	15-FEB-18	00.00	Negotiable
	08-FEB-18	INC WESTAMERICA		450.00	13-FEB-18 12-FEB-18	89.00 450.00	Reconciled Reconciled
		COMMUNICATIONS, INC.		450.00	12-FPD-18	450,00	vecoucileq
201656	0.0 EED 10	DITTTTTME DOMEST					

1,000.00 13-FEB-18

INC. 08-FEB-18 WILLIAMS, RONALD

384656

1,000.00 Reconciled

384657	08-FEB-18	WILMINGTON	7,597.48	13-FEB-18	7,597.48	Reconciled
		INSTRUMENT COMPANY			,	
384658	08-FEB-18	INC WINDWOOD GLEN	133,11			
384659	08-FEB-18			4.6 4.0		Negotiable
304033	00-160-10	CALIFORNIA, LLC	1,950.00	16-FEB-18	1,950.00	Reconciled
384660	00-FEB-18	WOODBRIDGE WILLOWS	79.78			Negotiable
		APARTMENTS				-
384661	08-FEB-18	YIN'S INC	25.00	16-FEB-18	25.00	Reconciled
384662	13-FEB-18	UNITED STATES POSTIRV	INE 25,000.00	16-FEB-18	25,000.00	Reconciled
		OFFICE	20,000:00	10 100 10	23,000.00	Keconciled
384663	15-FEB-18	Garcia, Alejandro	200,00	21-FEB-18	200.00	Reconciled
		(Alex)			200.00	Reconciled
384664	15-FEB-10		90.00	26-FEB-18	90.00	Reconciled
		(Charles)	30.00	20 110 10	30.00	Reconcided
384665	15-FEB-18		262.00	16-FEB-18	0.60 0.0	
384666		Lin, Eileen	120.00		262.00	Reconciled
301000	13-155-10	(Eileen)	120.00	20-FEB-18	120.00	Reconciled
384667	15 555 10					
364667	15-FEB-18		180.00			Negotiable
204550		(Rory)				
384668	15-FEB-18		20.12			Negotiable
		(Fiona)				
384669	15-FEB-18	Sciabica, Joseph	218.27	21-FEB-18	218.27	Reconciled
384670	15-FEB-18	Toland, Scott	210.02	23-FEB-18	210.02	Reconciled
		Andrew				
384671	15-FEB-18	A STITCH ON	68.13	22-FEB-18	68.13	Reconciled
		TIME.COM	00.13	ZZ IDD IQ	00.13	Reconciled
384672	15-FEB-18	A&A WIPING CLOTH	1,249.90	21-FEB-18	1 240 00	D 13 1
	10 100 10	CO CO	1,249.90	71-LFD-10	1,249.90	Reconciled
384673	15_FFD_10	ABLAN, AGNES	00.00	0.6 PPP 10		
IRWD Ledger Upgrade	17-FP-10			26-FEB-18		
IRWD Ledger Opgrade		Payment Reg	ister For 01-FEB-18 To	28-FEB-18	Report Date: 28-	-FEB-2018 13:47
BANK: Bank of America N.A.	Branc	h : Los Angeles	Account: Check			20
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	Sequence Num Date	Supplier Name	Site	Payment Amount		Cleared Amount	Status
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384674	15-FEB-18	ACI		1,351.11	21-FEB-18	1,351.11	Reconciled
384675	15-FEB-18	ADS LLC		8,776.00	22-FEB-18	8,776.00	Reconciled
384676	15-FEB-18	AGAHI, SAEED		37.57	22-FEB-18	37.57	Reconciled
384677	15-FEB-18			620.00	20-FEB-18	620,00	Reconciled
		SERVICES, INC.		020100	20 FEB 10	020.00	Reconciled
384678		ANDRADE, MAGDALENA		92.44	26-FEB-18	92.44	Reconciled
384679	15-FEB-18	ANSON, CRYSTAL		66.01			Negotiable
384680	15-FEB-18	APEX LIFE SCIENCES, LLC		1,543.50	22-FEB-18	1,543.50	Reconciled
384681	15-FEB-18			137,60	00 DDD 10	100 00	
384682	15-FEB-10				22-FEB-18	137.60	Reconciled
384683	15-FEB-18			1,834.98	20-FEB-18	1,834.98	Reconciled
384684				49.20	21-FEB-18	49,20	Reconciled
384685	15-FEB-18			1,094.20	21-FEB-18	1,094.20	Reconciled
		ATHENS SERVICES		6,510.16	20-FEB-18	6,510.16	Reconciled
384686		ATHENS SERVICES		1,653.60	21-FEB-18	1,653.60	Reconciled
384687	15-FEB-18	AUTOZONE PARTS, INC.		1,243.73	23-FEB-18	1,243.73	Reconciled
384608	15-FEB-18	BARATI, PARSHAW		38,46			Negotiable
384689	15-FEB-18			39.93	22-FEB-18	39.93	Reconciled
384690	15-FEB-18			7,180.45	21-FEB-18	7,180.45	
		CO		.,100.45	21-FEB-10	7,180.45	Reconciled
384691	15-FEB-18	BELSHIRE ENVIRONMENTAL		3,640.00	22-FEB-18	3,640.00	Reconciled
		SERVICES, INC.					
384692	15-FEB-18			375,00			M
384693	15-FEB-18			2,580.00			Negotiable
	13 111 10	& MAPPING, INC.		2,300.00			Negotiable
384694	15-FEB-18			639,25	00 DDD 10	620.05	
	13-FEB-16	INC		639,25	20-FEB-18	639.25	Reconciled
384695	15-FEB-18	BRITHINEE ELECTRIC		36,467.99	22-FEB-18	36,467.99	Reconciled
384696	15-FEB-18	BROWN AND CALDWELL		1,439.00	20-FEB-18	1,439.00	Reconciled
384697	15-FEB-18	BRUCE CLARK		7,500.00	21-FEB-18	7,500.00	Reconciled
384698	15-FEB-10	CALIFORNIA		6,701.25	21-FEB-18	6,701.25	Reconciled
		BARRICADE RENTAL,		0,701,20	21 100 10	0,701.23	Reconciled
		INC.					
384699	15-FEB-18			500,00			M
	10 110 10	PLANT SOCIETY		300.00			Negotiable
384700	15-FEB-18			16.00			
384701	15-FEB-18			16.02	00 0 10		Negotiable
384702				3,128.54	22-FEB-18	3,128.54	Reconciled
384703	15-FEB-18			15.59	26-FEB-18	15.59	Reconciled
	15-FEB-18			36.63			Negotiable
384704	15-FEB-18			20,546.66	26-FEB-18	20,546.66	Reconciled
		COMPANY INC					
384705	15-FEB-18	CHEN, NATALIA		68.56	26-FEB-18	68.56	Reconciled
384706	15-FEB-18			40.67			Negotiable
384707	15-FEB-18	CHUNG, WAYNE		100.73			Negotiable
IRWD Ledger Upgi	rade	Payment R	Register For	01-FEB-18 To	28-FEB-18	Report Date: 28-	
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384708	15-FEB-18	CITY OF SANTA ANA	171.44	20-FEB-18	171.44	December
384709	15-FEB-18	CIVIL SOURCE, INC.	18,880.00 288.61	20-160-10	1/1.44	Reconciled Negotiable
384710	15-FEB-18	CLA-VAL COMPANY	288.61	21-FEB-18	288.61	Reconciled
384711	15-FEB-18	CLARK, CHRIS	55.59	21-FEB-18	55,59	Reconciled
384712	15-FEB-18	CR & R	384.48	21-FEB-18	384.48	Reconciled
		INCORPORATED				
384713		CS-AMSCO	1,505.06	20-FEB-18	1,505.06	Reconciled
384714	15-FEB-18	CULLIGAN OF SANTA	7,019.95	21-FEB-18	7,019.95	Reconciled
		ANA				
384715	15-FEB-18	D & H WATER	517.71	21-FEB-18	517.71	Reconciled
204716	15 ppp 10	SYSTEMS INC.				
384716 384717	15-FEB-18	DATASITE INC DAVIDSON, TARYN DAVIS FARR LLP	810.00			Negotiable
384718	15-FEB-18	DAVIDSON, TARYN	103.70	V		Negotiable
384719				21-FEB-18		Reconciled
384720	12-FEB-18	DELL MARKETING LP	97,803.52	21-FEB-18	97,803.52	Reconciled
384721	15-FEB-18	DIIORIO, ELAINE DISCOUNT COURIER		01 555 10	101.01	Negotiable
304721	15-16-16	SERVICE	158.50	21-FEB-18	158.50	Reconciled
384722	15-FEB-18		7,977.50	23-FEB-18	7 077 60	Dan
384723		EAST ORANGE COUNTY	49,855.55	26-FEB-18	7,977.50	Reconciled
	10 192 10	WATER DISTRICT	49,000,00	20-FFD-10	49,855.55	Reconciled
384724	15-FEB-18	ELITE AUTOMOTIVE	550.00	23-FEB-18	EEO 00	D
	13 115 10	SERVICE, LLC	550.00	23-FEB-16	550.00	Reconciled
384725	15-FEB-18	ELITE EQUIPMENT,	129.10	22-FEB-18	120 10	Danes = 41 - 4
	13 111 10	INC.	129,10	22-FPD-10	129,10	Reconciled
384726	15-FEB-18	ENDRESS AND HAUSER	6,370.48	21-FEB-18	6,370.48	Reconciled
		INC	0,0,0,10	21 100 10	0,570.48	Reconcited
384727	15-FEB-18	ESPINOZA,	15.15			Negotiable
		CHRISTOPHER	10.15			Negotiable
384728	15-FEB-18	EXECUTIVE LIGHTING	7,149.27	21-FEB-18	7,149.27	Reconciled
		& ELECTRIC	//14512/	21 110 10	7,149.27	Recollectied
384729	15-FEB-18	FALLIS, GARY	64.80			Negotiable
384730		FARWEST CORROSION		20-FEB-18	3,561,14	Reconciled
		CONTROL COMPANY	-,	20 120 10	3,301,14	Keconciled
384731	15-FEB-18		557,69	21-FEB-18	557.69	Reconciled
384732	15-FEB-18	FERLING, DONALD C	24.70		337.03	Negotiable
384733		FINISTERRA	85.00	21-FEB-18	85.00	Reconciled
		CORPORATION			00,00	necomerted
384734	15-FEB-18	FISHER SCIENTIFIC	1,371.71	20-FEB-18	1,371.71	Reconciled
		COMPANY LLC			_,	
384735	15-FEB-18	FLEET SOLUTIONS	4,871.00	21-FEB-18	4,871.00	Reconciled
384736	15-FEB-18	LLC	236.19	20-FEB-18	226.10	D 1 1 - 1
	10 120 10	RESOURCES, LLC.	230.19	20-16-10	236.19	Reconciled
384737	15-FEB-18		51.69	23-FEB-18	51,69	Reconciled
IRWD Ledger Upgrad	e	CALIFORNIA INC. Payment H	Register For 01-FEB-18 To	28-FEB-18	Report Date: 28-	-FEB-2018 13:47
BANK: Bank of Ame	e rica N.A. Branc Currency: USD (US D	Payment I h : Los Angeles	Register For 01-FEB-18 To Account: Check Payment Curr Display Supplier Add	ress: No	Report Date: 28- Page: 2 US Dollar)	
BANK: Bank of Ame Bank Account Payment Ty	e rica N.A. Branc Currency: USD (US D pe: All	Payment F h : Los Angeles ollar)	Display Supplier Add	ress: No	00 201141 /	
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se	e rica N.A. Branc Currency: USD (US D pe: All quence Num Date	Payment I h : Los Angeles ollar) Supplier Name	Display Supplier Add Site Payment Amount	ress: No	Cleared Amount	22 Status
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se	e rica N.A. Branc Currency: USD (US E pe: All quence Num Date	Payment I h : Los Angeles ollar) Supplier Name	Display Supplier Add	ress: No	00 201141 /	22
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se	e rica N.A. Branc Currency: USD (US E pe: All quence Num Date	Payment I h : Los Angeles ollar) Supplier Name	Display Supplier Add Site Payment Amount	ress: No	Cleared Amount	22 Status
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document	e rica N.A. Branc Currency: USD (US E pe: All quence Num Date : IRWD CHECK	Payment F h : Los Angeles collar) Supplier Name	Display Supplier Add Site Payment Amount	ress: No	Cleared Amount	Status
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BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384739	errica N.A. Branc Currency: USD (US Epe: All quence Num Date : IRWD CHECK 15-FEB-18 15-FEB-18	Payment H h: Los Angeles collar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC.	Display Supplier Add Site Payment Amount 354.09 1,756.00	ress: No Cleared Date 20-FEB-18	Cleared Amount	Status Negotiable Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738	errica N.A. Branc Currency: USD (US Epe: All quence Num Date : IRWD CHECK 15-FEB-18 15-FEB-18	Payment I h : Los Angeles ollar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS	Display Supplier Add Site Payment Amount 354.09 1,756.00	ress: No Cleared Date 20-FEB-18	Cleared Amount	Status Status Negotiable Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384739	errica N.A. Branc Currency: USD (US Epe: All quence Num Date : IRWD CHECK 15-FEB-18 15-FEB-18	Payment F h : Los Angeles collar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75	Cleared Date 20-FEB-18	1,756.00 12,117.75	Status Negotiable Reconciled Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740	errica N.A. Branc Currency: USD (US Epe: All quence Num Date : IRWD CHECK 15-FEB-18 15-FEB-18	Payment I h : Los Angeles collar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS	Display Supplier Add Site Payment Amount 354.09 1,756.00	ress: No Cleared Date 20-FEB-18	Cleared Amount	Status Status Negotiable Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740	errica N.A. Branc Currency: USD (US Epe: All quence Num Date : IRWD CHECK 15-FEB-18 15-FEB-18	Payment I h: Los Angeles ollar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS COMPANY, INC.	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18	1,756.00 12,117.75 68.00	Status Negotiable Reconciled Reconciled Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384739 384740 384741	errica N.A. Branc Currency: USD (US Epe: All quence Num Date : IRWD CHECK 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18	Payment I 1 : Los Angeles 1 : Los Angeles 1 : Los Angeles 2 : Los Angeles Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS COMPANY, INC. GHD INC.	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86	Cleared Date 20-FEB-18	1,756.00 12,117.75	Status Negotiable Reconciled Reconciled Reconciled Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742	errica N.A. Branc Currency: USD (US Epe: All quence Num Date : IRWD CHECK 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18	Payment I 1: Los Angeles 1: Los Angeles 1: Los Angeles 1: Los Angeles 2:	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 23-FEB-18	1,756.00 12,117.75 68.00 16,055.86	Status Negotiable Reconciled Reconciled Reconciled Reconciled Negotiable
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742 384743	erica N.A. Branc Currency: USD (US Epe: All quence Num Date : IRWD CHECK 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18	Payment I 1: Los Angeles 1: Los Angeles 1: Los Angeles 1: Los Angeles 2:	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86	Cleared Date 20-FEB-18 23-FEB-18 23-FEB-18 23-FEB-18 20-FEB-18	1,756.00 12,117.75 68.00 16,055.86 2,790.86	Status Negotiable Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742 384743 384744 384745 384746	erica N.A. Branc Currency: USD (US Epe: All quence Num Date : IRWD CHECK 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18	Payment F h: Los Angeles collar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS COMPANY, INC. GHD INC. GOBRAN, DOMINIQUE GRAINGER	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 23-FEB-18	1,756.00 12,117.75 68.00 16,055.86	Status Negotiable Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742 384743 3847743 384774 384774	erica N.A. Branc Currency: USD (US Epe: All quence Num Date : IRWD CHECK 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18	Payment I i tos Angeles ollar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS COMPANY, INC. GOBRAN, INC. GOBRAN, DOMINIQUE GRAINGER HACH COMPANY HAN, CHANGCHENG	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 2,415.51 28.04	Cleared Date 20-FEB-18 23-FEB-18 23-FEB-18 23-FEB-18 20-FEB-18	1,756.00 12,117.75 68.00 16,055.86 2,790.86	Status Negotiable Reconciled Reconciled Reconciled Negotiable Reconciled Negotiable Reconciled Negotiable
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742 384743 384744 384745 384746	erica N.A. Branc Currency: USD (US Epe: All quence Num Date : IRWD CHECK 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18	Payment I i tos Angeles ollar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS COMPANY, INC. GOBRAN, INC. GOBRAN, DOMINIQUE GRAINGER HACH COMPANY HAN, CHANGCHENG	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 2,415.51 28.04 595.96	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 23-FEB-16 20-FEB-18 22-FEB-18	1,756.00 12,117.75 68.00 16,055.86 2,790.86 2,415.51	Status Negotiable Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742 384743 384744 384745 3847745 3847746	erica N.A. Branc Currency: USD (US Epe: All quence Num Date : IRWD CHECK 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18	Payment In the Los Angeles ollar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS COMPANY, INC. GHD INC. GHD INC. GHD INC. GHAINGER HACH COMPANY HAN, CHANGCHENG HE, XINTAO	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 2,415.51 28.04	Cleared Date 20-FEB-18 23-FEB-18 23-FEB-18 23-FEB-18 20-FEB-18	1,756.00 12,117.75 68.00 16,055.86 2,790.86	Status Negotiable Reconciled Reconciled Reconciled Negotiable Reconciled Negotiable Reconciled Negotiable
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742 384743 384744 384745 3847745 3847746	erica N.A. Branc Currency: USD (US Epe: All quence Num Date :: IRWD CHECK 15-FEB-18	Payment I h: Los Angeles collar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS COMPANY, INC. GHD INC. GOBRAN, DOMINIQUE GRAINGER HACH COMPANY HAN, CHANGCHENG HE, XINTAO HELPMATES STAFFING	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 2,415.51 28.04 595.96 16,711.22	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 20-FEB-18 22-FEB-18 22-FEB-18	1,756.00 12,117.75 68.00 16,055.86 2,790.86 2,415.51	Status Negotiable Reconciled Reconciled Reconciled Reconciled Reconciled Negotiable Reconciled Negotiable Reconciled Reconciled Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742 384743 384744 384745 384774 384774 384774 384774 384774 384774	erica N.A. Branc Currency: USD (US Epe: All quence Num Date :: IRWD CHECK 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18	Payment I h: Los Angeles collar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS COMPANY, INC. GHD INC. GOBRAN, DOMINIQUE GRAINGER HACH COMPANY HAN, CHANGCHENG HE, XINTAO HELPMATES STAFFING SERVICES HILL BROTHERS CHEMICAL COMPANY	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 2,415.51 28.04 595.96	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 23-FEB-16 20-FEB-18 22-FEB-18	1,756.00 12,117.75 68.00 16,055.86 2,790.86 2,415.51	Status Negotiable Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742 384744 384745 384746 384746 384746 384748 384749 384750	erica N.A. Branc Currency: USD (US Epe: All quence Num Date :: IRWD CHECK 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18	Payment I 1 I Los Angeles 1 I Los Angeles 1 I Los Angeles 2 I Los Angeles 3 I Los Angeles 4 I Los Angeles 4 I Los Angeles 5 I Los Angeles 6 I Los Angeles 6 I Los Angeles 6 I Los Angeles 6 I Los Angeles 7 I Los Angeles 8 I Los Angeles 8 I Los Angeles 8 I Los Angeles 9 I Los Angeles 1 I Los Ange	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 2,415.51 28.04 595.96 16,711.22	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 20-FEB-18 22-FEB-18 22-FEB-18	1,756.00 12,117.75 68.00 16,055.86 2,790.86 2,415.51 16,711.22 21,842.75	Status Negotiable Reconciled
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BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742 384743 384744 384745 384746 384774 384753 384750 384751 384752 384753	erica N.A. Branc Currency: USD (US Epe: All quence Num Date : IRWD CHECK 15-FEB-18	Payment I i Los Angeles ollar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS COMPANY, INC. GHD INC. GOBRAN, DOMINIQUE GRAINGER HACH COMPANY HAN, CHANGCHENG HE, XINTAO HELPMATES STAFFING SERVICES HILL BROTHERS CHEMICAL COMPANY HOME DEPOT USA INC HOPKINS TECHNICAL PRODUCTS INC HOYA OPTICAL LABS OF AMERICA, INC. HUSTEDT, HAYLEY	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 22,475.51 28.04 595.96 16,711.22 21,842.75 2,078.80 9,903.73	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18	1,756.00 12,117.75 68.00 16,055.86 2,790.86 2,415.51 16,711.22 21,842.75 2,078.80	Status Negotiable Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742 384743 384744 384745 384746 384746 384747 384751 384750 384750 384751 384752	erica N.A. Branc Currency: USD (US Epe: All quence Num Date :: IRWD CHECK 15-FEB-18	Payment I h: Los Angeles ollar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS COMPANY, INC. GHD INC. GOBRAN, DOMINIQUE GRAINGER HACH COMPANY HAN, CHANGCHENG HE, XINTAO HELEMATES STAFFING SERVICES HILL BROTHERS CHEMICAL COMPANY HOME DEPOT USA INC HOPA OPPICAL LABS OF AMERICA, INC. HUSTEDT, HAYLEY LBM CORPORATION	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 2,415.51 28.04 595.96 16,711.22 21,842.75 2,078.80 9,903.73 133.71	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18	1,756.00 12,117.75 68.00 16,055.86 2,790.86 2,415.51 16,711.22 21,842.75 2,078.80	Negotiable Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742 384743 384744 384745 384746 384774 384753 384750 384751 384752 384753	erica N.A. Branc Currency: USD (US Epe: All quence Num Date : IRWD CHECK 15-FEB-18	Payment I h: Los Angeles ollar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS COMPANY, INC. GHD INC. GOBRAN, DOMINIQUE GRAINGER HACH COMPANY HAN, CHANGCHENG HE, XINTAO HELEMATES STAFFING SERVICES HILL BROTHERS CHEMICAL COMPANY HOME DEPOT USA INC HOPA OPPICAL LABS OF AMERICA, INC. HUSTEDT, HAYLEY LBM CORPORATION	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 22,415.51 28.04 595.96 16,711.22 21,842.75 2,078.80 9,903.73 133.71 65.34	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 23-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18	Cleared Amount 1,756.00 12,117.75 68.00 16,055.86 2,790.86 2,415.51 16,711.22 21,842.75 2,078.80 133.71 925.00	Status Negotiable Reconciled Reconciled Reconciled Reconciled Reconciled Negotiable Reconciled Negotiable Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742 384743 384744 384745 384746 384746 384746 384751 384752 384753 384753 384753 384754 384755	erica N.A. Branc Currency: USD (US Epe: All quence Num Date :: IRWD CHECK 15-FEB-18	Payment I i tos Angeles ollar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS COMPANY, INC. GHD INC. GOBRAN, DOMINIQUE GRAINGER HACH COMPANY HAN, CHANGCHENG HE, XINTAO HELPMATES STAFFING SERVICES HILL BROTHERS CHEMICAL COMPANY HOME DEPOT USA INC HOPKINS TECHNICAL PRODUCTS INC HOYA OPTICAL LABS OF AMERICA, INC. HUSTEDT, HAYLEY IBM CORPORATION IDEXX DISTRIBUTION, INC	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 2,415.51 28.04 595.96 16,711.22 21,842.75 2,078.80 9,903.73 133.71 65.34 925.00	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18	1,756.00 12,117.75 68.00 16,055.86 2,790.86 2,415.51 16,711.22 21,842.75 2,078.80	Negotiable Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742 384743 384744 384745 384746 384746 384747 384751 384750 384750 384751 384752	erica N.A. Branc Currency: USD (US Epe: All quence Num Date :: IRWD CHECK 15-FEB-18	Payment In the Los Angeles ollar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEI CONSULTANTS INC. GHD INC. GHANGER HACH COMPANY HAN, CHANGCHENG HE, XINTAO HELPMATES STAFFING SERVICES HILL BROTHERS CHEMICAL COMPANY HOME DEPOT USA INC HOPA OPTICAL LABS OF AMERICA, INC. HUSTEDT, HAYLEY IBM CORPORATION IDEXX DISTRIBUTION, INC IRON MOUNTAIN	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 2,415.51 28.04 595.96 16,711.22 21,842.75 2,078.80 9,903.73 133.71 65.34 925.00	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18	Cleared Amount 1,756.00 12,117.75 68.00 16,055.86 2,790.86 2,415.51 16,711.22 21,842.75 2,078.80 133.71 925.00	Status Negotiable Reconciled Reconciled Reconciled Reconciled Reconciled Negotiable Reconciled Negotiable Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742 384743 384744 384745 384746 384746 384746 384751 384752 384753 384753 384753 384754 384755	erica N.A. Branc Currency: USD (US Epe: All quence Num Date :: IRWD CHECK 15-FEB-18	Payment In the Control of the Contro	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 2,415.51 28.04 595.96 16,711.22 21,842.75 2,078.80 9,903.73 133.71 65.34 925.00 8,671.26	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 20-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 20-FEB-18	1,756.00 12,117.75 68.00 16,055.86 2,790.86 2,415.51 16,711.22 21,842.75 2,078.80 133.71 925.00 8,671.26	Status Negotiable Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742 384743 384744 384745 384746 384746 384751 384752 384753 384755 384756	erica N.A. Branc Currency: USD (US Epe: All quence Num Date : IRWD CHECK 15-FEB-18	Payment I I: Los Angeles ollar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS COMPANY, INC. GHD INC. GOBRAN, DOMINIQUE GRAINGER HACH COMPANY HAN, CHANGCHENG HE, XINTAO HELPMATES STAFFING SERVICES HILL BROTHERS CHEMICAL COMPANY HOME DEPOT USA INC HOPKINS TECHNICAL PRODUCTS INC HOYA OPTICAL LABS OF AMERICA, INC. HUSTEDT, HAYLEY IBM CORPORATION IDEXX DISTRIBUTION, INC IRON MOUNTAIN INFORMATION MANAGEMENT INC	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 2,415.51 28.04 595.96 16,711.22 21,842.75 2,078.80 9,903.73 133.71 65.34 925.00 8,671.26 1,422.61	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 20-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 20-FEB-18	1,756.00 12,117.75 68.00 16,055.86 2,790.86 2,415.51 16,711.22 21,842.75 2,078.80 133.71 925.00 8,671.26	Status Negotiable Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742 384743 384744 384745 384746 384746 384746 384751 384752 384753 384753 384753 384754 384755	erica N.A. Branc Currency: USD (US Epe: All quence Num Date : IRWD CHECK 15-FEB-18	Payment I h: Los Angeles ollar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEI CONSULTANTS INC GENGRE HILLS COMPANY, INC. GHD INC. GOBRAN, DOMINIQUE GRAINGER HACH COMPANY HAN, CHANGCHENG HE, XINTAO HELPMATES STAFFING SERVICES HILL BROTHERS CHEMICAL COMPANY HOME DEPOT USA INC HOYA OFFICAL LABS OF AMERICA, INC. HUSTEDT, HAYLEY LIBM CORPORATION IDEXX DISTRIBUTION, INC IRON MOUNTAIN INFORMATION MANAGEMENT INC IRVINE PIPE &	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 2,415.51 28.04 595.96 16,711.22 21,842.75 2,078.80 9,903.73 133.71 65.34 925.00 8,671.26	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 20-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 20-FEB-18	1,756.00 12,117.75 68.00 16,055.86 2,790.86 2,415.51 16,711.22 21,842.75 2,078.80 133.71 925.00 8,671.26	Status Negotiable Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384739 384740 384741 384742 384743 384743 384745 384746 384746 384751 384752 384753 384755 384756 384757	erica N.A. Branc Currency: USD (US De: All quence Num Date :: IRWD CHECK 15-FEB-18	Payment I h: Los Angeles ollar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS COMPANY, INC. GHD INC. GOBRAN, DOMINIQUE GRAINGER HACH COMPANY HAN, CHANGCHENG HE, XINTAO HELPMATES STAFFING SERVICES HILL BROTHERS CHEMICAL COMPANY HOME DEPOT USA INC HOYA OPTICAL LABS OF AMERICA, INC. HUSTEDT, HAYLEY LOS AND CORPORATION IDEXX DISTRIBUTION, INC IRON MOUNTAIN INFORMATION MANAGEMENT INC INVINE PIPE & SUPPLY INC	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 2,415.51 28.04 595.96 16,711.22 21,842.75 2,078.80 9,903.73 133.71 65.34 925.00 8,671.26 1,422.61 2,761.93	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 23-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 20-FEB-18 21-FEB-18 20-FEB-18	Cleared Amount 1,756.00 12,117.75 68.00 16,055.86 2,790.86 2,415.51 16,711.22 21,842.75 2,078.80 133.71 925.00 8,671.26 1,422.61 2,761.93	Negotiable Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384740 384741 384742 384743 384744 384745 384746 384746 384751 384752 384753 384755 384756	erica N.A. Branc Currency: USD (US De: All quence Num Date :: IRWD CHECK 15-FEB-18	Payment I I : Los Angeles ollar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS COMPANY, INC. GHD INC. GOBRAN, DOMINIQUE GRAINGER HACH COMPANY HAN, CHANGCHENG HE, XINTAO HELPMATES STAFFING SERVICES HACH COMPANY HOME DEPOT USA INC. HOPKINS TECHNICAL PRODUCTS INC HOYA OPTICAL LABS OF AMERICA, INC. HUSTEDT, HAYLEY IBM CORPORATION IDEXX DISTRIBUTION, INC IRON MOUNTAIN INFORMATION MANAGEMENT INC IRVINE PIPE & SUPPLY INC IRVINE PROPERTY	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 2,415.51 28.04 595.96 16,711.22 21,842.75 2,078.80 9,903.73 133.71 65.34 925.00 8,671.26 1,422.61	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 21-FEB-18 21-FEB-18	1,756.00 12,117.75 68.00 16,055.86 2,790.86 2,415.51 16,711.22 21,842.75 2,078.80 133.71 925.00 8,671.26 1,422.61	Negotiable Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384739 384740 384741 384742 384743 384743 384746 384746 384746 384751 384750 384751 384752 384753 384756 384756 384757 384758	erica N.A. Branc Currency: USD (US Epe: All quence Num Date :: IRWD CHECK 15-FEB-18	Payment I h: Los Angeles ollar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS COMPANY, INC. GHD INC. GOBRAN, DOMINIQUE GRAINGER HACH COMPANY HAN, CHANGCHENG HE, XINTAO HELPMATES STAFFING SERVICES HILL BROTHERS CHEMICAL COMPANY HOME DEPOT USA INC HOYA OPTICAL LABS OF AMERICA, INC. HUSTEDT, HAYLEY IBM CORPORATION IDEXX DISTRIBUTION, INC IRON MOUNTAIN INFORMATION MANAGEMENT INC IRVINE PIPE 6 SUPPLY INC IRVINE PROPERTY MANAGEMENT	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 2,415.51 28.04 595.96 16,711.22 21,842.75 2,078.80 9,903.73 133.71 65.34 925.00 8,671.26 1,422.61 2,761.93 154.92	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 23-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 20-FEB-18 21-FEB-18 20-FEB-18	Cleared Amount 1,756.00 12,117.75 68.00 16,055.86 2,790.86 2,415.51 16,711.22 21,842.75 2,078.80 133.71 925.00 8,671.26 1,422.61 2,761.93	Negotiable Reconciled
BANK: Bank of Ame Bank Account Payment Ty Payment Number Se Payment Document 384738 384739 384740 384741 384742 384743 384743 384745 384746 384746 384751 384752 384753 384755 384756 384757	erica N.A. Branc Currency: USD (US Epe: All quence Num Date :: IRWD CHECK 15-FEB-18	Payment I I : Los Angeles ollar) Supplier Name FUN, BAOLONG FUSCOE ENGINEERING, INC. GEI CONSULTANTS INC GEORGE HILLS COMPANY, INC. GHD INC. GOBRAN, DOMINIQUE GRAINGER HACH COMPANY HAN, CHANGCHENG HE, XINTAO HELPMATES STAFFING SERVICES HACH COMPANY HOME DEPOT USA INC. HOPKINS TECHNICAL PRODUCTS INC HOYA OPTICAL LABS OF AMERICA, INC. HUSTEDT, HAYLEY IBM CORPORATION IDEXX DISTRIBUTION, INC IRON MOUNTAIN INFORMATION MANAGEMENT INC IRVINE PIPE & SUPPLY INC IRVINE PROPERTY	Display Supplier Add Site Payment Amount 354.09 1,756.00 12,117.75 68.00 16,055.86 28.42 2,790.86 2,415.51 28.04 595.96 16,711.22 21,842.75 2,078.80 9,903.73 133.71 65.34 925.00 8,671.26 1,422.61 2,761.93	Cleared Date 20-FEB-18 23-FEB-18 22-FEB-18 23-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 22-FEB-18 20-FEB-18 21-FEB-18 20-FEB-18	Cleared Amount 1,756.00 12,117.75 68.00 16,055.86 2,790.86 2,415.51 16,711.22 21,842.75 2,078.80 133.71 925.00 8,671.26 1,422.61 2,761.93	Negotiable Reconciled

384760	15-FEB-18	IRWD-PETTY CASH CUSTODIAN	1,163.13	16-FEB-18	1,163.13	Reconciled
384761 384762		JADDAO, SHIRLEY JCI JONES	33.64 3.327.37	22-FEB-18 22-FEB-18		Reconciled Reconciled
204762		CUEMICAIC INC			·	
384763 384764	15-FEB-18 15-FEB-18	JOHNSTONE SUPPLY JONES, AMIE	1,844.77 10.81	20-FEB-18	1,844.77	Reconciled Negotiable
384765	15-FEB-18	KHAN, SHAFIQ R	160.00	22-FEB-18		Reconciled
384766 384767	15-FEB-18 15-FEB-18	KHOSRAVI, FARHAD KIMBALL MIDWEST	41.02 1,063.26			
384768	15-FEB-18	JOHNSTONE SUPPLY JONES, AMIE KHAN, SHAFIQ R KHOSRAVI, FARHAD KIMBALL MIDWEST KITONGAN, NIMITZ	253.19			Negotiable
BANK: Bank of America N.A.	Branc	Payment Th : Los Angeles	Register For 01-FEB-18 To	28-FEB-18	Report Date: 28- PR Page: 2	-FEB-2018 13:47
IRWD Ledger Upgrade BANK: Bank of America N.A. Bank Account Currency Payment Type: All	: USD (US	Dollar)	Payment Curr Display Supplier Add	rency: USD	(US Dollar)	2.3
				.2000, 110		
Payment Number Sequence Num				Cleared Date	Cleared Amount	Status
Payment Document : IRWD CI			***************************************			*****
384769	15-FEB-18	KLEINFELDER, INC.	1,747.50			Negotiable
384770	15-FEB-18	KLEINFELDER, INC. KRUSSEFF, GEORGE W LANCER SALES USA,	38.46	21-FEB-18		Reconciled
384771	15-FEB-18	LANCER SALES USA, INC.	505.90	22-FEB-18	505.90	Reconciled
384772	15-FEB-18	LANDCARE HOLDINGS,	4,500.00	21-FEB-18	4,500.00	Reconciled
384773	15-FEB-18	INC. LBA REALTY BPCC,	351,76			Negotiable
384774	15-FEB-18	LLC LEE & RO, INC.	10,093,81	26-FEB-18	10,093.81	Reconciled
384775 384776	15-FEB-18	LEE & RO, INC. LENZINGER, JARED LEWIS BRISBOIS	500.46	23-FEB-18 23-FEB-18	500.46	Reconciled
	15 125 16	BISGAARD AND SMITH, LLP	120.00	23-1EB-18	120.00	Reconciled
384777		MALONE, TERESA	121,16	21-FEB-18	121.16	Reconciled
384778 384779		MARLO, JOHN MBF CONSULTING,	52.84 22,270.00	26-FEB-18	22,270.00	Negotiable Reconciled
384780		INC. MC FADDEN-DALE				
		INDUSTRIAL	52,72	22-FEB-18		Reconciled
384781		MC MASTER CARR SUPPLY CO	3,721.96	20-FEB-18	3,721.96	Reconciled
384782	15-FEB-18	MICHAEL BAKER INTERNATIONAL,	20,115.00			Negotiable
384783	15-FEB-18	INC. MORGAN, STEWART	50.00			Negotiable
384784	15-FEB-18	MSC INDUSTRIAL SUPPLY CO	256.19	26-FEB-18	256,19	
384785		MULTIQUIP INC	893.03	21-FEB-18		Reconciled
384786	15-FEB-18	MUNICIPAL WATER DISTRICT OF ORANGE	1,211.01	22-FEB-18	1,211.01	Reconciled
384787	15-FEB-18	COUNTY NATIONAL READY	2,248.24	21-FEB-18	2,248.24	Reconciled
384788	15-FEB-18	MIXED CONCRETE CO. NINYO & MOORE	3,862.00	20-FEB-18	3,862.00	Reconciled
384789 384790	15-FEB-18	OLIN CORPORATION	32,175.99	26-FEB-18	32,175.99	Reconciled
304790	12-FEB-18	ORANGE COUNTY AUTO PARTS CO	1,055.96	20-FEB-18	1,055.96	Reconciled
384791	15-FEB-18	ORANGE COUNTY FIRE PROTECTION	4,370.79	20-FEB-18	4,370.79	Reconciled
384792	15-FEB-18	ORANGE COUNTY	62.50	23-FEB-18	62.50	Reconciled
384793	15-FEB-18	SHERIFF'S OFFICE OSTER, EDWIN	27.23			Negotiphle
384794		OUTSOURCE		22-FEB-18	20,825.00	Negotiable Reconciled
384795	15-FEB-18	TECHNICAL LLC PACIFIC COAST BOLT	2,014.94	22-FEB-18	2,014.94	Reconciled
RWD Ledger Upgrade		CORP Payment I	Register For 01-FEB-18 To	28-FEB-18	Report Date: 28-	FEB-2018 13:47
BANK: Bank of America N.A. Bank Account Currency: Payment Type: All	Branc USD (US D	h : Los Angeles		ing AP and E ency: USD (PR Page: 2	
				Cleared		
ayment Number Sequence Num	Date	Supplier Name	Site Payment Amount	Cleared Date		Status
Payment Number Sequence Num		Supplier Name	Site Payment Amount	Dak.	Cleared Amount	Status
	ECK	****************		Date		******
Payment Document : IRWD CH	ECK 15-FEB-18	PACIFIC HYDROTECH CORPORATION	84,655.30	Date	84,655.30	Reconciled
Payment Document : IRWD CH 384796 384797	ECK 15-FEB-18 15-FEB-18	PACIFIC HYDROTECH CORPORATION PACIFIC HYDROTECH CORPORATION	84,655.30 4,455.54	23-FEB-18 21-FEB-18	84,655.30 4,455.54	Reconciled Reconciled
Payment Document : IRWD CH 384796 384797 384798	ECK 15-FEB-18 15-FEB-18	PACIFIC HYDROTECH CORPORATION PACIFIC HYDROTECH CORPORATION PANAHI, AMIR PASCAL & LUDWIG	84,655.30	Date	84,655.30 4,455.54 22.95	Reconciled
Payment Document : IRWD CH 384796 384797 384798 384799	15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18	PACIFIC HYDROTECH CORPORATION PACIFIC HYDROTECH CORPORATION PANAHI, AMIR PASCAL & LUDWIG CONSTRUCTORS PASCAL & LUDWIG	84,655.30 4,455.54 22.95	23-FEB-18 21-FEB-18 23-FEB-18	84,655.30 4,455.54 22.95	Reconciled Reconciled
Payment Document : IRWD CH 384796 384797 384798 384799 384800	15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18	PACIFIC HYDROTECH CORPORATION PACIFIC HYDROTECH CORPORATION PANAHI, AMIR PASCAL & LUDWIG CONSTRUCTORS PASCAL & LUDWIG CONSTRUCTORS PASCAL & LUDWIG	84,655.30 4,455.54 22.95 21,076.70	23-FEB-18 21-FEB-16 23-FEB-18 22-FEB-18	84,655.30 4,455.54 22.95 21,076.70 435,053.98	Reconciled Reconciled Reconciled Reconciled
Payment Document : IRWD CH 384796 384797 384798 384800 384801 384802	15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18	PACIFIC HYDROTECH CORPORATION PACIFIC HYDROTECH CORPORATION PANAHI, AMIR PASCAL & LUDWIG CONSTRUCTORS PATRICIA COPPA	84,655.30 4,455.54 22.95 21,076.70 435,053.98	23-FEB-18 21-FEB-18 23-FEB-16 22-FEB-18 22-FEB-18	84,655.30 4,455.54 22.95 21,076.70 435,053.98	Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled
Payment Document : IRWD CH 384796 384797 384798 384799 384800	15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18 15-FEB-18	PACIFIC HYDROTECH CORPORATION PACIFIC HYDROTECH CORPORATION PANAHI, AMIR PASCAL & LUDWIG CONSTRUCTORS PASCAL & LUDWIG CONSTRUCTORS PASCAL & LUDWIG CONSTRUCTORS	84,655.30 4,455.54 22.95 21,076.70 435,053.98 1,820.88	23-FEB-18 21-FEB-18 23-FEB-16 22-FEB-18 22-FEB-18	84,655.30 4,455.54 22.95 21,076.70 435,053.98 1,820.88	Reconciled Reconciled Reconciled Reconciled Reconciled

384805	15-FEB-18	PLUMBERS DEPOT		228.43	20-FEB-18	228.43	Reconciled
384806 384807		INC. POLLARDWATER.COM		2,785.80	21-FEB-18		Reconciled
384808	15-FEB-18	DISTRIBUTION INC	_	388.41	21-FEB-18		Reconciled
		PRESTIGE AUTO BODY EXPRESS		3,300.00	21-FEB-10		Reconciled
384809	15-FEB-18	PROBOLSKY RESEARCH LLC	Į.	46,075.00	26-FEB-18	46,075.00	Reconciled
384810	15-FEB-10	PRUDENTIAL OVERALL SUPPLY	ı	5,402.47	20-FEB-18	5,402.47	Reconciled
384811 384812		PRUFTECHNIK INC PTI SAND & GRAVEL		1,550.49 2,012.84	20-FEB-18 23-FEB-18		Reconciled Reconciled
384813		INC R & S SOIL		840.45		2,032.101	Negotiable
384814		PRODUCTS INC RADICIC, ASHA		29.07	23-FEB-18	29,07	Reconciled
384815	15-FEB-18			3,973.73	20-FEB-18		Reconciled
384816	15-FEB-18	RANDY LE AND PAULA LE		113.07	22-FEB-18	113.07	Reconciled
384817	15-FEB-18	RICHMOND AMERICAN HOMES OF MARYLAND,		78.98			Negotiable
384818	15-FEB-18	INC RINCON TRUCK		192.17	20-FEB-18	192.17	Reconciled
384819	15-FEB-10	CENTER INC. ROCKFORCE		7,184.13	21-FEB-18	7,184,13	Reconciled
384820	15-FEB-18	CONSTRUCTION, LLC ROHLOFF, GLORIA		43.57			Negotiable
IRWD Ledger Upgrade BANK: Bank of America N.A.	D	Payment	Register !	For 01-FEB-18 To			
Bank Account Currency: Payment Type: All	USD (US I	Pollar)			ency: USD	(US Dollar)	23
raymone Type, AII			DI	sbray Subbrier Wdd	ress; No		
					Cleared		
Payment Number Sequence Num						Cleared Amount	Status
Payment Document : IRWD CH	ECK						
384821	15-FEB-18	ROYALTY CARPET MILLS		718.66			Negotiable
384822 384823	15-FEB-18 15-FEB-18	SANDERS PAVING INC SANTA ANA BLUE PRINT		26,756.00 208.59	22-FEB-18 22-FEB-18	26,756.00 208.59	Reconciled Reconciled
384824	15-FEB-18	SANTA MARGARITA		416.56	21-FEB-18	416.56	Reconciled
384825	15-FEB-18			34,091.39	26-FEB-18	34,091.39	Reconciled
384826	15-FEB-18	WATER DISTRICT SEPARATION		703.50	20-FEB-18	703.50	Reconciled
384827	15-FEB-18	PROCESSES INC SHAMROCK SUPPLY CO		2,071.98	21-FEB-18	2,071.98	Reconciled
384828	15-FEB-18			45.31	27-FEB-18	45.31	Reconciled
384829	15-FEB-18	SMITH SYSTEM DRIVER IMPROVEMENT INSTITUTE, INC.		2,899.59	21-FEB-18	2,899.59	Reconciled
384830 384831	15-FEB-18 15-FEB-18			8,305.00 151.66	21-FEB-18 21-FEB-18	8,305.00 151,66	Reconciled Reconciled
384832	15-FEB-18	co,		1,022.61	20-FEB-18	1,022.61	Reconciled
384833	15-FEB-18	DISTRICT		304,643.37	20-FEB-18	304,643.37	
	10 122 10	CALIFORNIA EDISON COMPANY		304,043.37	20-160-16	304,643.37	Reconciled
384834 384835	15-FEB-18 15-FEB-18	SPARKLETTS STANTEC CONSULTING		277.92 5,745.00	22-FEB-18	277.92	Reconciled
384836	15-FEB-18	SERVICES INC. STATE BOARD OF		,	22-FEB-18	5,745.00	Reconciled
		EQUALIZATION		895.00	22-FEB-18	895.00	Reconciled
304037	15-FEB-18	STATE WATER RESOURCES CONTROL		13,385.05	26-FEB-18	13,385.05	Reconciled
384838	15-FEB-18			11,890.56			Negotiable
384839	15-FEB-18	SPECIALTY PRODUCTS SUN-STAR ELECTRIC,		31,424.74	27-FEB-18	31,424.74	Reconciled
****	15-FEB-18	INC. TANG, SAMUAL		58.36			Negotiable
	15-FEB-18 15-FEB-18	TAYLOR MORRISON TESTAMERICA		23.91 21.00	27-FEB-18 23-FEB-18	23.91 21.00	Reconciled Reconciled
384843	15-FEB-18	LABORATORIES, INC THE GAS COMPANY		9,472.44	27-FEB-18	9,472.44	
384844	15-FEB-18 15-FEB-18	TIC-IPG-COMMON TIC-OFFICE		803.96 485.33	21-FEB-18 21-FEB-18	9,472.44 803.96 485.33	Reconciled Reconciled
	15-FEB-18	PROPERTIES			71-50D-18	485.33	Reconciled
IRWD Ledger Upgrade		Payment F	Register F	1,639.98 or 01-FEB-10 To		Report Date: 28-	Negotiable FEB-2010 13:47
BANK: Bank of America N.A. Bank Account Currency:		h : Los Angeles ollar)		Account: Checki Payment Curre			6
Payment Type: All			Dis	play Supplier Addi	ess: No	,	
					Closers		
Payment Number Sequence Num			Site	Payment Amount		Cleared Amount	Status

Payment Document : IRWD CF	IECK						
384847	15-FEB-18	TONG, JEANNIE		110.50			Negotiable
384848	15-FEB-18	TOTALFUNDS		5,010.00	23-FEB-18	5,010,00	Reconciled
384849	15-FEB-18	TRI POINTE HOMES, INC.		274.80	27-FEB-18	274.80	Reconciled
384850	15-FEB-10	TRIPAC MARKETING		1,464.77	21-FEB-18	1,464.77	Reconciled
384851	15-FEB-18			3,987.62	20-FEB-18	3,987.62	Reconciled
384852	15-FEB-18	TRUCPARCO		607.32	26-FEB-18	607.20	
384853		TURTLE ROCK CANYO	N	73.31	70-1FB-10	607.32	Reconciled Negotiable
384854	15-FEB-18	UNITED STATES POS	T	25,000.00	22-FEB-18	25,000.00	Reconciled
384855	15-FEB-18	VILLA CORONADO APTS		1,098.15			Negotiable
384856	15-FEB-10	VWR INTERNATIONAL	,	3,154.97	21-FEB-18	3,154.97	Reconciled
384857	15-FEB-18			50.00			M
384858		WALTON MOTORS & CONTROLS INC		2,845.88	20-FEB-18	2,845.88	Negotiable Reconciled
384859	15-FEB-18	WATERLINE TECHNOLOGIES INC		2,840.00	20-FEB-18	2,840.00	Reconciled
384860	15-FEB-18	WEST YOST ASSOCIATES, INC		1,374.60	21-FEB-18	1,374.60	Reconciled
384861	15-FEB-18			844.00	22-FEB-18	844.00	Reconciled
384862	15-FEB-18	WOODBURY COMMUNIT	Y	1,028.97			Negotiable
384863	15-FEB-18	XU, WALLICE		52.60	22-FEB-18	52,60	Reconciled
384864	15-FEB-18			83.12	22 100 10	52,60	
384865		YAVARI, HAMED		32.29			Negotiable
384866	15-FEB-18			91.00	22-FEB-10	91.00	Negotiable
384867		Castaneda, Natali	^	43.37			Reconciled
384868		N (Natalie)	е		23-FEB-18	43.37	Reconciled
384869		Martinez, Jose A IV (Jose)		64.90	27-FEB-18	64.90	Reconciled
		Rock, Douglas T (Douglas)		141.95			Negotiable
384870	22-FEB-18	Schreiner, Terrance M Jr (Terrance)		27.79			Negotiable
384871	22-FEB-16	Sheilds, Patrick		6.00			Negotiable
384872	22-FEB-18	Sidlin, Wayne		150.00			Negotiable
384873	22-FEB-18	Ruiz, Ricky (Ricky)	HOME	157.68	27-FEB-18	157.68	Reconciled
384874	22-FEB-18	AAF INTERNATIONAL		771,78	27-FEB-18	771.78	Reconciled
IRWD Ledger Upgrade			Register For	01-FEB-18 To		Report Date: 28-	
BANK: Bank of America N.A.	Branci	h : Los Angeles	3+0001 101	Account: Check			
Bank Account Currency:					ency: USD (U		7
Payment Type: All	(00 b	~ · · · · · /	Displa	ay Supplier Add:		o notige)	

Payment Number	Sequence Num Date	Supplier Name	Site Payment Amount	Cleared		
			Site Payment Amount	Date	Cleared Amount	Status
	ment : IRWD CHECK					
384875	22-FEB-18	ABS PRODUCTS INC	1,105,18			Negotiable
384876	22-FEB-18	ACCUSTANDARD INC	399.01			Negotiable
384877	22-FEB-18	ADVANCED INDUSTRIAL SOLUTIONS INC	8,183.03	26-FEB-18	8,183.03	Reconciled
384878	22-FEB-18	AEGIS ENGINEERING MANAGEMENT, INC.	12,324.00			Negotiable
384879	22-FEB-18	AFLAC	3,442,96			Negotiable
384880	22-FEB-18	AFLAC	101.56			Negotiable
384881	22-FEB-18	AIRGAS, INC.	331,90	26-FEB-18	331.90	Reconciled
384882	22-FEB-18	ALL AMERICAN SEWER TOOLS	1,298.95		552,35	Negotiable
384883	22-FEB-18	ALPHA TRAFFIC SERVICES, INC.	200.00	26-FEB-18	200.00	Reconciled
384884	22-FEB-18	ALSTON & BIRD LLP	67,241,45			Negotiable
384885	22-FEB-18	AM CONSERVATION GROUP, INC.	469.26	27-FEB-18	469.26	Reconciled
384886	22-FEB-18	AMAZON CAPITAL SERVICES, INC.	163,62	26-FEB-18	163.62	Reconciled
384887	22-FEB-18		546.33			Negotiable
384668	22-FEB-18	ANTHEM BLUE CROSS	214.68			Negotiable
384889	22-FEB-18	ANTHEM BLUE CROSS	290.43			Negotiable
384890	22-FEB-18	ANTHEM BLUE CROSS	546.33			Negotiable
384891	22-FEB-18	APEX LIFE SCIENCES, LLC	2,791.70			Negotiable
384892	22-FEB-18	AT&T	7,599.41			Negotiable
384893	22-FEB-18	AT&T	8,132,76	27-FEB-18	8,132.76	Reconciled
384894	22-FEB-18	AUTOZONE PARTS, INC.	38.99	2, 120 10	0/132.70	Negotiable
384895	22-FEB-18	AVISTA TECHNOLOGIES, INC	2,000.00	27-FEB-18	2,000.00	Reconciled
384896	22-FEB-18	BATTERIES PLUS AND BATTERIES PLUS BULBS	764.76	26-FEB-18	764.76	Reconciled
384897	22-FEB-18	BDC SPECIAL WASTE	207.20	27-FEB-18	207.20	Reconciled
384898	22-FEB-18	BILL'S SWEEPING	460.00	_, LDD 10	207,20	Negotiable

			SERVICE INC					
384899			BLACK & VEATCH CORPORATION		274,730.67			Negotiable
384900 384901			BOOT WORLD, INC. BRENNTAG PACIFIC INC		3,290.46 1,128.50	26-FEB-18	1,128.50	Negotiable Reconciled
384902 384903		22-FEB-18 22-FEB-18	BRITHINEE ELECTRIC BUSH & ASSOCIATES	!	3,012.07 1,984.00	26-FEB-18	3,012.07	Reconciled Negotiable
Bank Acco	rade America N.A. ount Currency: Type: All	Brand USD (US 1	ch : Los Angeles		r 01-FEB-10 To Account: Check Payment Curr lay Supplier Add	ing AP and ency: USD	Report Date: 28- PR Page: 2 (US Dollar)	-FEB-2018 13:47 28
Payment Number				Site	Payment Amount	Cleared Date	Cleared Amount	Status
	ent : IRWD CH				************			
384904		22-FEB-18	CALIFORNIA		5,422.50	27-FEB-18	5,422.50	Reconciled
			BARRICADE RENTAL, INC.				-,	
384905 384906			CALTROL, INC. CANON FINANCIAL		6,403.53 8,996.59	26-FEB-18	6,403.53	Reconciled Negotiable
384907			SERVICES, INC CANON SOLUTIONS		778.84			Negotiable
384908			AMERICA, INC. CHEM TECH		15,563.28			Negotiable
384909			INTERNATIONAL INC		1,347.71	26-FEB-18	1,347.71	
384910 384911		22-FEB-18	CIVIL SOURCE, INC. CLARIS STRATEGY		52,178.00		, .	Reconciled Negotiable
384912			INC.		3,697.50	27-FEB-18	3,697.50	Reconciled
304312		22-FB-18	COMMERCIAL DOOR OF ORANGE COUNTY,		4,298.23	26-FEB-18	4,298.23	Reconciled
384913		22-FEB-10	COMMUNICATIONS,		3,250.67	27-FEB-18	3,250.67	Reconciled
384914		22-FEB-18	INC. CULLIGAN OF SANTA		3,008.55	26-FEB-18	3,008.55	Reconciled
384915 384916			ANA CYBERNETICS		1,494.00	26-FEB-18	1,494.00	Reconciled
			DATA CLEAN CORPORATION		830.00	27-FEB-18	830,00	Reconciled
384917 384918		22-FEB-18	DATASITE INC DEE JASPAR & ASSOCIATES, INC.		4,983.00 2,400.21			Negotiable Negotiable
384919 384920		22-FEB-18 22-FEB-18			129.98 3,468.75	27-FEB-18	3,468.75	Negotiable Reconciled
384921		22-FEB-18	SCIENCE ASSOCIATES EXECUTIVE LIGHTING		16,352.07			Negotiable
384922		22-FEB-18	& ELECTRIC FARRELL &		185.37	26-FEB-18	185,37	Reconciled
384923		22-FEB-18			469,38	27-FEB-18	469.38	Reconciled
384924		22-FEB-18	ENTERPRISES, INC.		9,154.45	26-FEB-18	9,154.45	Reconciled
384925			FIRE EXTINGUISHING SAFETY & SERVICE		711.93			Negotiable
384926 384927			FIREHOSEDIRECT.COM FIRST CHOICE		1,833.80 696.77			Negotiable Negotiable
384928		22-FEB-18			21,102.90			Negotiable
384929		22-FEB-18	FISHER SCIENTIFIC COMPANY LLC		1,480.53			Reconciled
Bank Acco		Branc USD (US D	h : Los Angeles		01-FEB-18 To Account: Checki Payment Curre ay Supplier Addr	ng AP and Ency: USD		
Payment Number	Soguence Num	Date	Cumplier News	Cit-		Cleared		
Payment Docum				Site	Payment Amount	Date	Cleared Amount	Status
384930	enc w IKWD Chi	22-FEB-18	FROMETER		477 70			
384931			CALIFORNIA INC. FULLER TRUCK		477,70	06 Pep 10		Negotiable
384932			ACCESSORIES		1,103.36	26-FEB-18	1,103.36	Reconciled
			GENERAL MONITORS		812.29			Negotiable
384933		22-FEB-18	CONSULTANTS INC		7,052.00	26-FEB-18	7,052.00	Reconciled
384934			GEORGE YARDLEY CO., INC.		1,484.36	26-FEB-18	1,484.36	Reconciled
384935			GJ AUTOMOTIVE EQUIPMENT CO INC		187.50			Negotiable
384936		22-FEB-18	GOVERNMENTAL		250.00	26-FEB-18	250.00	Reconciled
384937		22-FEB-18	SERVICES, INC. GOLDMAN, SACHS &		15,123.29			Negotiable
384938		22-FEB-18	CO. LLC GRAINGER		2,489.53	27-FEB-18	2,489.53	Reconciled

384939 384940			GUO, HAOXIANG H2O INNOVATION US.	32.2: A 3,292.00			Negotiable Negotiable
384941		22-FEB-18	INC HAAKER EQUIPMENT COMPANY	204.2	27-FEB-18	204.25	Reconciled
384942		22-FEB-18	HACH COMPANY	10,728.20)		Negotiable
384943		22-FEB-18	HANANO, DEAN	43,74		43.74	
384944		22-FEB-18	HARMSWORTH ASSOCIATES	1,081.00)		Negotiable
384945 384946			HARP, ROBERT HARRINGTON INDUSTRIAL	64.72 1,694.4		1,694.47	Negotiable Reconciled
384947		22-FFB=18	PLASTICS LLC HAYASHI, TAKAYUKI	1,009.92	06 PEP 10		
384948 384949		22-FEB-18	HEINZ, RALPH HELPMATES STAFFING	77.83	3	1,009.92	Reconciled Negotiable
384950			SERVICES HILL BROTHERS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Negotiable
			CHEMICAL COMPANY	2,630.00		2,630.00	Reconciled
384951 384952			HOME DEPOT USA INC	231.48 36.05			Negotiable
384953			INDUSTRIAL METAL	690.07		36,05 690,07	Reconciled Reconciled
384954		22-FEB-18	SUPPLY CO INSITUFORM	190,142.50)		Negotiable
384955		22-FEB-18	TECHNOLOGIES INC IRVINE PIPE &	2,460.21	26-FEB-18	2,460.21	Reconciled
384956		22-FEB-18	SUPPLY INC JAISWAL, NATASHA	44.78			Negotiable
IRWD Ledger Upg	grade	-	Payment	Register For 01-FEB-18 To			-FEB-2018 13:47
Bank Acco	America N.A. bunt Currency: Type: All	USD (US [ch : Los Angeles Pollar)	Account: Chec Payment Cux Display Supplier Ad	rency: USD (30
Daymont Number	Company Num	Doto	Compilée - Nove	Site Payment Amoun	Cleared		
rayment Number	sequence Num	Date	Supplier Name	Site Payment Amoun	t Date	Cleared Amount	Status
Payment Docum	ent : IRWD CHE	CK					
384957		22-FEB-18	KAESER COMPRESSORS, INC.	2,131.92	26-FEB-18	2,131.92	Reconciled
384958			KANTAMNENI, MANOJ				Negotiable
384959 384960			KEC ENGINEERING				Negotiable
304900		22-FEB-18	KENT & AMY DAHLBERG	1,492.92	27-FEB-18	1,492.92	Reconciled
384961		22-FEB-18	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES	3,870.00	26-FEB-18	3,870.00	Reconciled
384962		22-FEB-18	KLEINFELDER, INC.	3,268.50	26-FEB-18	3,268.50	Reconciled
384963		22-FEB-18	KPRS CONSTRUCTION SERVICES, INC	1,246.97		1,246.97	Reconciled
384964			LADHA, SHARMIN	88.95			Negotiable
384965			LANDCARE HOLDINGS, INC.	2,320.65	27-FEB-18	2,320.65	Reconciled
384966			LCS TECHNOLOGIES, INC.	7,695.00	27-FEB-18	7,695.00	Reconciled
384967		22-FEB-18		1,540.34			Negotiable
384968			LUBRICATION ENGINEERS, INC.	7,797.16	27-FEB-18	7,797.16	Reconciled
384969			MAGLIARDITI, DOMINIC	60.00			Negotiable
384970			MARVIN GARDENS LLC			2,765.60	Reconciled
384971 384972			MBK ENGINEERS MC FADDEN-DALE	11,559.50 46.98		46.98	Negotiable Reconciled
384973		22-FEB-18	INDUSTRIAL MCR TECHNOLOGIES	227.46			Negotiable
384974		22-FEB-18	INC	141,950.49			
384975		22-FEB-18	CALIFORNIA, INC	16,673.43			Negotiable
			PIERCE, FENNER &	•			Negotiable
384976		22-FEB-18	SMITH INCORPORATED MUNICIPAL WATER DISTRICT OF ORANGE	27,139.61			Negotiable
384977	:	22-FEB-18	,	33.30			Negotiable
384978	;	22-FEB-18	KARTHIGEYA NATIONAL WATER	2,500.00			Negotiable
384979	:	22-FEB-18	RESEARCH INSTITUTE NEW PIG	1,193.96	27-FEB-18	1,193.96	Reconciled
384980	;	22-FEB-18	CORPORATION NEWPORT BAY	35,00			Negotiable
384981		22=FFB. 10	CONSERVANCY				_
384982			NGUYEN, VAN OLIN CORPORATION	716.43 17,672.71			Negotiable Negotiable
IRWD Ledger Upg	rade		Payment 1	Register For 01-FEB-18 To		Report Date: 28-	
BANK: Bank of A	America N.A. unt Currency: 1	Branch	h : Los Angeles	Account: Check	king AP and PR	Page: 3	1
	Type: All	~~~ (US DI	OTTGI	Payment Curi Display Supplier Add	rency: USD (dress: No	us Dollar)	

Site

Cleared Payment Amount Date

Payment Number Sequence Num Date Supplier Name

Payment Document : IRWD CHECK

Status

Cleared Amount

384983	22-FEB-18		102.50	27-FEB-10	102.50	Reconciled
384984	22-FEB-18	FISHBURN, LLP ORANGE COUNTY AUTO	80.20	26-FEB-18	80,20	Reconciled
		PARTS CO		20 120 10	00,20	Reconciled
384985	22-FEB-18	ORDONEZ, MELANIE	45.06			Negotiable
384986	22-FEB-18		3,619,44	26-FEB-18	3,619.44	Reconciled
384987	22-FEB-18		5,920.00	20-165-10	3,619.44	Negotiable
		WATER ENGINEERING, INC.	3,320.00			Negotiable
304988	22-FEB-18		1,484.08	26-FEB-18	1,484,08	D 13 1
301300	22 160 10	CONTROLS INC	1,464.08	70-1FB-18	1,484.08	Reconciled
384989	22-FEB-18	PARKHOUSE TIRE INC	3,085,32	27-FEB-10	3,085,32	Reconciled
384990	22-FEB-18		416.99	27 100 10	3,003.32	Negotiable
		SCIENCES INC	410.33			Negociable
384991	22-FEB-18		3,596.00	26-FEB-18	3,596.00	Reconciled
		SHAW PITTMAN LLP	3,350.00	20 155 10	3,390.00	Recolletted
384992	22-FEB-18	PINNACLE TOWERS	720,39	27-FEB-18	720.39	Reconciled
		LLC	120,03	E, IBB 10	720.33	Reconciled
384993	22-FEB-18	PIPE LINE SE	1,345.74			Negotiable
		CONSTRUCTION	-,			negotiable
384994	22-FEB-18	PITTS, MARIA	42.88			Negotiable
		MICHELLE				Regoriable
384995	22-FEB-18	PIVOT INTERIORS	1,129.38	27-FEB-18	1,129,38	Reconciled
		INC	,		-,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
384996	22-FEB-18	PRAXAIR	232.14	27-FEB-18	232.14	Reconciled
		DISTRIBUTION INC				***************************************
384997	22-FEB-18	PRIME CONTROLS	2,547.38	26-FEB-18	2,547.38	Reconciled
		COMPANY INC			_,	
384998	22-FEB-18	PRO MOBILE AUTO	950.00	27-FEB-18	950.00	Reconciled
		DETAILING				
384999	22-FEB-18	PROCARE WORK	2,430.00	27-FEB-18	2,430,00	Reconciled
		INJURY CENTER			7	
385000	22-FEB-18	PROMINENCE	1,111.34			Negotiable
		ENTERPRISES, LLC				
385001	22-FEB-18	PRUFTECHNIK INC	6,838.00	27-FEB-18	6,838,00	Reconciled
385002	22-FEB-18	PSOMAS	13,682.50			Negotiable
385003	22-FEB-18	RAFTELIS FINANCIAL	3,260.65	26-FEB-18	3,260.65	Reconciled
		CONSULTANTS INC.				
385004	22-FEB-18	RAINBOW DISPOSAL	757,36			Negotiable
		CO INC				-
385005	22-FEB-18	RAM AIR	2,720.27	27~FEB-18	2,720.27	Reconciled
		ENGINEERING INC				
385006		RANCHO TIERRA APTS	33.64			Negotiable
385007	22-FEB-18		19,671.00			Negotiable
		CONSULTANTS INC.				-
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CONSULTANTS INC.

Payment Register For 01-FEB-18 To 28-FEB-18 Report Date: 28-FEB-2018 13:47

BANK: Bank of America N.A.

Branch: Los Angeles Account: Checking AP and PR Page: 32

Payment Currency: USD (US Dollar)

Payment Type: All Display Supplier Address: No

		Supplier Name	Site Payment Amount	Cleared Date	Cleared Amount	Status
Payment Docum	ent : IRWD CHECK					
365008	22-FEB-18	REFRIGERATION SUPPLIES DISTRIBUTOR	52.00	26-FEB-18	52,00	Reconciled
385009	22-FEB-18	RICHMOND AMERICAN HOMES OF MARYLAND, INC	1,996.10			Negotiable
385010	22-FEB-18	RINCON TRUCK CENTER INC.	662.87	27-FEB-18	662.87	Reconciled
385011	22-FEB-18	ROYAL WHOLESALE ELECTRIC	749.60	26-FEB-18	749.60	Reconciled
385012	22-FEB-18	SAN CARLO APARTMENTS	36.05			Negotiable
385013	22-FEB-18	SAN MARINO APTS	39.27			Negotiable
385014	22-FEB-18	SAN REMO APTS	111.98			Negotiable
385015	22-FEB-18	SANCHEZ, CAROLINE	183.81			Negotiable
385016	22-FEB-18	SANDERS PAVING INC	3,218,75			Negotiable
385017	22-FEB-18	SANTA MARGARITA FORD	8,07	26-FEB-18	8.07	Reconciled
385018	22-FEB-18	SECURITAS SECURITY SERVICES USA, INC.	54,255.15			Negotiable
385019	22-FEB-18	SHAMROCK SUPPLY CO	222.35	27-FEB-18	222,35	Reconciled
385020	22-FEB-18	SHENDELMAN, STEVE	376.14			Negotiable
385021	22-FEB-18	SHOETERIA	125.00			Negotiable
385022	22-FEB-18	SITMATIC	1,436.22	27-FEB-18	1,436,22	Reconciled
385023	22-FEB-18	SKORUZ TECHNOLOGIES INC	19,224.00		-,	Negotiable
385024	22-FEB-18	SMITH, CHRISTINA	27.12	27-FEB-18	27.12	Reconciled
385025	22-FEB-18	SOUTH BAY FOUNDRY, INC	1,847.92		27,120	Negotiable
385026	22-FEB-18	SOUTH COAST ANSWERING SERVICE	156.08	26-FEB-18	156.08	Reconciled
385027	22-FEB-18	SOUTH COAST WATER	151.66			Negotiable
385028	22-FEB-18	SOUTHERN CALIFORNIA EDISON COMPANY	17.90	26-FEB-18	17.90	Reconciled
385029	22-FEB-18	SOUTHERN	169,450.53	27-FEB-18	169,450.53	Reconciled

	385030	22 - FEB-18	CALIFORNIA EDISON COMPANY SOUTHERN CALIFORNIA SECURITY CENTERS,		256.87			Negotiable
	385031	22-FEB-18	INC. SOUTHLAND WATER		1,121.88			Negotiable
	IRWD Ledger Upgrade BANK: Bank of America N.A. Bank Account Currency Payment Type: All	Bran	TECHNOLOGIES LLC Payment ch : Los Angeles Dollar)	Register I	For 01-FEB-18 To Account: Check: Payment Curre splay Supplier Add:	28-FEB-18 ing AP and PR ency: USD (ress: No	Report Date: 28 Page: US Dollar)	-FEB-2018 13:47
	Payment Number Sequence Num	n Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	
	Payment Document : IRWD C							
	385032 385033		SPARKLETTS STANTEC CONSULTIN SERVICES INC.	IG	133.87 9,859.00			Negotiable Negotiable
	385034	22-FEB-18	STRADLING YOCCA		700.00	27-FEB-18	700.00	Reconciled
	385035	22-FEB-18	CARLSON & RAUTH SUKLE ADVERTISING		40,275.32			Negotiable
	385036	22-FEB-18	INC. SWAINS ELECTRIC		6,635.28			Negotiable
	385037	22-FEB-18	MOTOR SERVICE SWSH SHABU SHABU		357.55			Negotiable
	385038 385039		TAYLOR MORRISON TELEDYNE		5,409.56 1,072.11	27-FEB-18	5,409.56	Reconciled Negotiable
	385040		INSTRUMENTS, INC. THE FURMAN GROUP,		12,540.00			
	385041		INC. THE GAS COMPANY					Negotiable
	385042		THOMPSON		135.19 3,863.94			Negotiable Negotiable
	385043		INDUSTRIAL SUPPLY TOLL BROTHERS, IN		42.20			Negotiable
	385044		TROPICAL PLAZA NURSERY INC		1,207.73	26-FEB-18	1,207.73	Reconciled
	385045 385046		TRUCPARCO TURTLE ROCK CANYO	N	409.56 38.46			Negotiable Negotiable
	385047	22-FEB-18	APTS TYCO INTEGRATED		928.04			-
	385048		SECURITY, LLC TYLER SABER AND	0.	74.68			Negotiable
	385049		RYAN TOWNLEY					Negotiable
	385050		ULTRA SCIENTIFIC UNITED PARCEL		102.58 84.62	27-FEB-18	84.62	Negotiable Reconciled
	385051	22-FEB-18	SERVICE INC UNITED WATER		2,960.97	27-FEB-18	2,960.97	Reconciled
	385052	22-FEB-18	WORKS, INC. US BANK NAT'L		10,586.30			Negotiable
	385053	22-FEB-18	ASSOC N.DAKOTA US BANK NAT'L		1,800.00	27-FEB-18	1,800.00	Reconciled
	385054		ASSOC N.DAKOTA WALTERS WHOLESALE		106.75	27-FEB-18	106,75	
	385055	22-FEB-18	ELECTRIC		1,694.41	26-FEB-18		Reconciled
	385056	22-FEB-18	ENTERPRISES, INC			20-FEB-18	1,694.41	Reconciled
	303030	22-155-16	EXTERMINATOR COMPANY		1,804.50			Negotiable
	385057	22-FEB-18	WESTERN NATIONAL CONTRACTORS		95,79			Negotiable
	IRWD Ledger Upgrade BANK: Bank of America N.A. Bank Account Currency: Payment Type: All		Payment h : Los Angeles		or 01-FEB-18 To Account: Checki Payment Curre play Supplier Addr	ng AP and PR ncy: USD (t		
						Cleared		
1.0	Payment Number Sequence Num					Date	Cleared Amount	Status
	Payment Document : IRWD CH	ECK						
	385058	22-FEB-18	YORKE ENGINEERING		2,215.25			Negotiable
	385059	22-FEB-18	ZEE MEDICAL		162.96			Negotiable
	385060	22-FEB-18	SERVICE CO JCI JONES	TAMPA	5,255.25			Negotiable
	385061	28-FEB-18	CHEMICALS INC CALIFORNIA DEPARTMENT OF TAX AND FEE ADMINISTRATION	P.O. BOX 942879	224.00			Negotiable
	p	avment Docu	ment Subtotal:	***	10,079,150.21	-22	8,779,026.05	
	Payment Document : IRWD Wi		Sociolar,		10,073,130.21		0,119,020.05	
	12449		INTERNAL REVENUE	FRESNO	201 500 20			Magati-1-1
	12450		SERVICE		201,580.38			Negotiable
	& & 4 d V	00-1FB=19	FRANCHISE TAX	SACRAMENTO	54,706.84			Negotiable

12451	06-FEB-18	BOARD EMPLOYMENT DEVELOPMENT	W SACRAMENTO	13,855.95			Negotiable
12452	06-FEB-18	DEPARTMENT ORDONEZ, CYNTHIA		230.77			Negotiable
12453	06-FEB-18		SPR SACRAMENTO	1,993.83			Negotiable
		DEPARTMENT OF CHILD SUPPORT					
12454	06-FEB-18	SERVICES WORKTERRA	PAY	13,335.27			Negotiable
12455	06-FEB-18	GREAT-WEST LIFE & ANNUITY INSURANCE		127,321.98			Negotiable
12456	06-FEB-18	COMPANY YORK INSURANCE	PAY	77,268.03			Negotiable
		SERVICES GROUP IN	IC				
12457	12-FEB-18	EMPLOYEE BENEFIT SPECIALISTS, INC.		23,839.27			Negotiable
12458	13-FEB-18	YORK INSURANCE SERVICES GROUP IN	PAY	23,482.14			Negotiable
12459	13-FEB-18	- CA CALPERS	SACRAMENTO	480,844.62			Negotiable
12460	13-FEB-18	CALPERS	1 SACRAMENTO	2,805.07			Negotiable
12461	16-FEB-18	CALPERS	1 SACRAMENTO	181,123.82			Negotiable
IRWD Ledger Upgrade BANK: Bank of America N.A.				01-FEB-18 To Account: Check			
Bank Account Currency Payment Type: All			Displ		ency: USD	(US Dollar)	
- J			21071	of papping had	1000, 110		
Payment Number Sequence Nu	m Date	Supplier Name	Site	Payment Amount	Cleared	Cleared Amount	Status
Payment Document : IRWD W							777777
12462		EMPLOYMENT	W	5,638.88			Negotiable
		DEVELOPMENT DEPARTMENT	SACRAMENTO	5, 555.55			Negociable
12463	16-FEB-18	Beeman, Beth M (Beth)	HOME	36.00			Negotiable
12464 12465	16-FEB-18 20-FEB-18	BURK, ROBERT	PAY	96.67 95,075.95			Negotiable
12.100	20 100 10	MELLON TRUST COMPANY NA	NEMANN	33,073.33			Negotiable
12466	20-FEB-18	U.S. BANK NATIONA ASSOCIATION	LST, LOUIS	48,575.34			Negotiable
12467	20-FEB-18		SAN FRANCISCO	47,865.82			Negotiable
12468	20-FEB-18	SUMITOMO MITSUI BANKING	NEW YORK	50,652.74			Negotiable
12469	20-FEB-18	CORPORATION	IST LOUIS	24,302.47			V
12470	20-FEB-18	ASSOCIATION		11,009.75			Negotiable
	20 100 10	MELLON TRUST COMPANY NA	NEMALIN	11,009.75			Negotiable
12471	20-FEB-18	BANK OF NEW YORK MELLON TRUST	NEWARK	7,339.84			Negotiable
12472	20-FEB-18	COMPANY NA GOLDMAN, SACHS &	PO BOY	62,400.00			Nogotishle
12473		CO. LLC MORGAN STANLEY &	9081	41,600.00			Negotiable
12474		CO LLC MUNICIPAL WATER	FRANCISCO FOUNTAIN	862,780.17			Negotiable
A A A T 3	ZV TEB 10	DISTRICT OF ORANG		002,700.17			Negotiable
12475	20-FEB-18	U.S. BANK NATIONA ASSOCIATION	LST, LOUIS	7,930.90			Negotiable
12476	21-FEB-10	FILANC-BALFOUR BEATTY JV	ACT 4427724347	1,308,715.51			Negotiable
12477	26-FEB-18	INTERNAL REVENUE SERVICE		173,114.33			Negotiable
12478	26-FEB-18		SACRAMENTO	54,231.90			Negotiable
12479	26-FEB-18		W SACRAMENTO	13,892.64			Negotiable
12480	26-FER-19	DEPARTMENT ORDONEZ, CYNTHIA		230.77			Nogoti-hi-
IRWD Ledger Upgrade	20 122 10	MARIE	SPR	01-FEB-18 To	20_FPD_10	Deposit Dates 20	Negotiable
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Payment Type: All	(05 1	,	Displ	ay Supplier Add		(00 DOLLAR)	
					Clossed		
Payment Number Sequence Nur		Supplier Name	Site	Payment Amount	Cleared	Cleared Amount	Status
Payment Document : IRWD Wi						277000000000000000000000000000000000000	
12481	26-FEB-18	CALIFORNIA DEPARTMENT OF	SACRAMENTO	1,993.83			Negotiable

		CHILD SUPPORT SERVICES				
12482	26-FEB-1	EMPLOYEE BENEFIT		14,019.25		Negotiable
12483	26-FEB-1		DENVER	128,506.87		Negotiable
		ANNUITY INSURANCE COMPANY				
12484	27-FEB-1	FRANCHISE TAX BOARD	SACRAMENTO	694.55		Negotiable
12485	27-FEB-1	3 INTERNAL REVENUE SERVICE	FRESNO	470.50		Negotiable
12486	27-FEB-1		PAY IC	4,706.75		Negotiable
12497	27-FEB-1		PAY IC	8,004.24		Negotiable
12488	27-FEB-1		FOUNTAIN VALLEY	1,656,763.42		Negotiable
12489	27-FEB-1		SACRAMENTO	911.76		
12490	27-FEB-1		SACRAMENTO	181,403.95		Negotiable
12491	27-FEB-1			1,749,677,10		Negotiable
		MELLON TRUST COMPANY NA	TI DITALLI	1,745,077.10		Negotiable
12492	27-FEB-18	U.S. BANK NATIONA ASSOCIATION	LST. LOUIS	2,918,625.00		Negotiable
		(E)				
	Payment Doo	ument Subtotal:		10,683,654.87		
			******		*******	
	Bank Acc	ount Subtotal :		20,762,805.08	8,779,026.05	
			****	20,702,803.08	8,779,026.05	
	Report Count : 938	Report Total:	20,762,805.0	8 8,779,026.05		
		2002	******	MANUE		
				Disbursements		

*** End of Report ***

- \$ 20,762,805.08 Disbursements
- <1,821.81> Voids \$ 20,760,983.27 Total voids and disbursements

Exhibit "E"

MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS

February 2018

1915	AMOUNT	VENDOR	PURPOSE
2/2/2018 2/16/2018	894,316.58 922,201.65 \$1,816,518.23	BANK OF AMERICA BANK OF AMERICA	ACH Payments for Payroll ACH Payments for Payroll

Exhibit "F"

IRWD Gov Code 53065.5 Disclosure Report

Payment or Reimbursements for Individual charges of \$100 or more per transaction for services or product received 01-FEB-18 to 28-FEB-18

NAME	CHECK NO.	CHECK	AMOUNT	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Bennett, Ray	384385	8-Feb-18	163.71	Mileage	Rosedale Rio Bravo monthly progress, Bakersfield, CA - November 2017
Bennett, Ray	384385	8-Feb-18	163.71	Mileage	Rosedale Rio Bravo monthly progress, Bakersfield, CA - December 2017
Borowski, Michael	384386	8-Feb-18	210.00	Certification Renewal	CWEA - Electrical/Instrumentation Technician Grade IV
Brown, Morgan	384387	8-Feb-18		Other(Misc)	Safety shoe allowance
Davis, Jennifer	384390	8-Feb-18	129.29	Other(Misc)	Operating supplies
Fike, Ethan	384169	1-Feb-18	280.00	Certification Renewal	CWEA - Electrical/Instrumentation Technician Grade IV
Garcia, Alex	384663	15-Feb-18	200.00	Other(Misc)	Safety shoe allowance
Gomez, Braulio	384170	1-Feb-18		Certification Renewal	SWRCB Water Distribution Operator Grade IV
Hatch, Lauren	384171	1-Feb-18	280.00	Certification Renewal	Backflow Tester fee reimbursement
La, Jason	384665	15-Feb-18	262.00	Membership Renewal	AWWA annual membership
aMar, Steven E	384172	1-Feb-18		Lodging	California Environmental Dialogue, Sacramento, CA - Dec. 15, 2017
aMar, Steven E	384172	1-Feb-18	171.64	Lodging	ACWA Board of Directors meeting, Sacramento, CA - Nov. 17, 2017
Lin, Eileen	384666	15-Feb-18	120.00	Other(Misc)	CPA license renewal
Matheis, Mary Aileen	384173	1-Feb-18	115.31	Lodging	Colorado River Symposium, Santa Fe, NM - Sept. 28, 2017
Matheis, Mary Aileen	384173	1-Feb-18	115.31	Lodging	Colorado River Symposium, Santa Fe, NM - Sept. 29, 2017
Matheis, Mary Aileen	384173	1-Feb-18	194.80	Lodging	Water Education Foundation's 40th Anniversary, Sacramento, CA - Oct. 27, 2017
Matheis, Mary Aileen	384173	1-Feb-18	229.23	Lodging	ACWA Fall Conference, Anaheim, CA - Nov. 28, 2017
Matheis, Mary Aileen	384173	1-Feb-18	229.23	Lodging	ACWA Fall Conference, Anaheim, CA - Nov. 29, 2017
Matheis, Mary Aileen	384173	1-Feb-18	229.23	Lodging	ACWA Fall Conference, Anaheim, CA - Nov. 30, 2017
Matheis, Mary Aileen	384173	1-Feb-18	229.23	Lodging	ACWA Fall conference, Anaheim, CA - Dec. 1, 2017
Moore, Rory	384667	15-Feb-18	180.00	Membership Renewal	CWEA membership fee
huong, Sophia	384175	1-Feb-18		Other(Misc)	Meeting supplies
Reyes, Jennifer	384396	8-Feb-18	100.00	Certification Renewal	Cross Connection Specialist certification fee
Reves, Jennifer	384176	1-Feb-18	280.00	Certification Renewal	Backflow Tester fee
Richardson, Kyle	384397	8-Feb-18		Other(Misc)	Wireless device reimbursement
Rock, Douglas	384869	22-Feb-18	141.95	Other(Misc)	Wireless device reimbursement
Ruiz, Ricky	384873	22-Feb-18	157.68	Other(Misc)	Safety shoe allowance
ciabica, Joseph	384669	15-Feb-18	218.27	Other(Misc)	Operating supplies
idlin, Wayne	384872	22-Feb-18		Certification Renewal	SWRCB Wastewater Treatment Plant Operator Grade V
oland, Scott	384670	15-Feb-18		Other(Misc)	OCFA Inspection Fee - Baker Water Treatment Plant

March 26, 2018

Prepared by: J. Corey/K. Welch

Submitted by: F. Sanchez/P. Weghorst

Approved by: Paul A. Cook

CONSENT CALENDAR

3.7 MG ZONE 1 RESERVOIR PROJECT FINAL INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

SUMMARY:

A Final Initial Study/Mitigated Negative Declaration (Final IS/MND) has been prepared for the proposed 3.7 million gallon (MG) Zone 1 Reservoir Project (Project) to be located adjacent to the existing IRWD 15 MG Zone 1 Reservoir. The Project would provide essential storage reliability and operational flexibility within the IRWD Zone 1 domestic water system. Environmental review has been completed for the proposed Project. Staff recommends that the Board:

- Adopt the Final IS/MND and the associated Mitigation Monitoring and Reporting Program for the Project, and
- Approve the Project and authorize staff to file a Notice of Determination and submit payment for the California Department of Fish and Wildlife Service filing fee.

BACKGROUND:

IRWD currently operates a 15 MG domestic water reservoir located off Sand Canyon Avenue, between Trabuco Road and Elysian, in Irvine. This 15 MG reservoir serves as the primary storage for the Zone 1 domestic water system, and also serves as the forebay for IRWD's East Zone 1-3 booster and South County Zone 1-3 booster pump stations. The Zone 1 system is the largest pressure zone in the District's domestic water system. If the 15 MG reservoir were out of service, it would leave the Zone 1 system without a water source to regulate pressures.

The construction of a new Zone 1 system reservoir would provide the District with additional operational flexibility and storage redundancy. To provide these additional benefits, a new 3.7 MG reservoir would be constructed at the northwest corner of the existing 15 MG Zone 1 Reservoir site. A Project location map is provided as Exhibit "A". The new reservoir would connect to existing utilities at the project site. An overview of the proposed Project is described below.

3.7 MG Zone 1 Reservoir Project:

The Project would include construction of a new aboveground pre-stressed circular concrete tank. In order to maintain the inflow and outflow capabilities of all facilities, the tank inlet and outlet piping would be sized to match the existing 36-inch inlet pipe to the 15 MG reservoir. The following features would also be included in the Project:

- Overflow and Drain Piping;
- Valve and Drain Vaults; and
- Reservoir Management System

Consent Calendar: 3.7 MG Zone 1 Reservoir Project Final Initial Study/Mitigated Negative Declaration
March 26, 2018
Page 2

The proposed tank would be located on top of an existing access road. Prior to tank construction, a new access road would be constructed. The proposed Project will also include several retaining walls, modifications to the existing electrical service and a new motorized, double-swing access gate installed at the existing site entry off Sand Canyon Avenue.

Environmental Review:

A Draft Initial Study/Mitigated Negative Declaration (Draft IS/MND) for the Project was prepared by environmental consultants at Psomas. On January 18, 2018, the Draft IS/MND was circulated for a 30-day public review period pursuant to the California Environmental Quality Act (CEQA). Six letters providing comments on the Draft IS/MND were received during the public review period that concluded on February 16, 2018. The agencies that provided comments were:

- California Department of Fish and Wildlife;
- State Water Resources Control Board;
- Governor's Office of Planning and Research;
- Orange County Public Works;
- City of Irvine; and
- California Cultural Resource Preservation Alliance.

IRWD reviewed all comments received and worked with Psomas to prepare responses to comments, which are included in the Final IS/MND. The Final IS/MND contains necessary minor corrections and additions and includes a Mitigation and Monitoring and Reporting Plan. A copy of the Final IS/MND is attached as Exhibit "B".

FISCAL IMPACTS:

The cost for the environmental review of the proposed 3.7 MG Zone 1 Reservoir Project is included for project 0641 in the FY 2017-18 Capital Budget. The existing budget and Expenditure Authorizations are sufficient at this time.

ENVIRONMENTAL COMPLIANCE:

This project is subject to the California Environmental Quality Act and in conformance with California Code of Regulations Title 14, Chapter 3, Article 6. A Notice of Intent to adopt a Mitigated Negative Declaration was filed with the County of Orange on January 18, 2018. Pursuant to State Guideline §15073, the IS/MND was made available for public review for a period of 30 days from January 18, 2018, through February 16, 2018.

COMMITTEE STATUS:

This item has not been reviewed by Committee. Environmental compliance items are not taken to Committee prior to submission for Board approval.

Consent Calendar: 3.7 MG Zone 1 Reservoir Project Final Initial Study/Mitigated Negative

Declaration March 26, 2018 Page 3

RECOMMENDATION:

THAT THE BOARD FIND ON THE BASIS OF THE WHOLE RECORD BEFORE IT (INCLUDING THE INITIAL STUDY/MITIGATED NEGATIVE DECLARATION AND THE COMMENTS RECEIVED), THAT THERE IS NO SUBSTANTIAL EVIDENCE THAT THE 3.7 MG ZONE 1 RESERVOIR WILL HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT AND THAT THE MITIGATED NEGATIVE DECLARATION REFLECTS IRWD'S INDEPENDENT JUDGMENT AND ANALYSIS; ADOPT THE PROPOSED MITIGATED NEGATIVE DECLARATION FOR THE 3.7 MG ZONE 1 RESERVOIR AND THE ASSOCIATED MITIGATION MONITORING AND REPORTING PROGRAM; APPROVE THE PROJECT; AUTHORIZE STAFF TO POST AND FILE A NOTICE OF DETERMINATION; AND SUBMIT PAYMENT FOR THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE SERVICE FILING FEE.

LIST OF EXHIBITS:

Exhibit "A" – 3.7 MG Zone 1 Reservoir Project Location Map Exhibit "B" – 3.7 MG Zone 1 Reservoir Final Initial Study/Mitigated Negative Declaration EXHIBIT "A"



A COPY OF EXHIBIT "B" CAN BE OBTAINED FROM THE DISTRICT SECRETARY

March 26, 2018

Prepared by: J. Corey / K. Welch Submitted by: F. Sanchez / P. Weghorst

Approved by: Paul A. Cook

CONSENT CALENDAR

ADDENDUM NO. 4 TO THE MICHELSON WATER RECYCLING PLANT PHASE 2 AND 3 <u>CAPACITY EXPANSION FINAL ENVIRONMENTAL IMPACT REPORT</u>

SUMMARY:

Irvine Ranch Water District proposes minor modifications to the Michelson Water Recycling Plant (MWRP) Phase 2 and 3 Capacity Expansion Project. The proposed modifications will facilitate the diversion of disinfected and dechlorinated tertiary-treated recycled water to San Diego Creek that would provide critical operational flexibility under emergency conditions. Environmental review has been completed for the proposed modifications. Staff recommends that the Board approve Addendum No. 4 to the MWRP Phase 2 and 3 Capacity Expansion Final Environmental Impact Report (FEIR).

BACKGROUND:

In February 2006, IRWD certified the FEIR for the MWRP Phase 2 and Phase 3 Capacity Expansion Project. This FEIR analyzed the consequences associated with the expansion of the then existing MWRP capacity to meet projected future IRWD recycled water needs.

Previous Addendums:

In March 2008, the IRWD Board approved Addendum No. 1 to the FEIR that evaluated the environmental effects of potential flooding risks and permanent floodwall improvements. The Board approved Addendum No. 2 in August 2009, which analyzed the environmental effects of improvements to the access road between Campus Drive and the IRWD San Joaquin Marsh Campus. In April 2010, the Board approved Addendum No. 3 to the FEIR that provided for the evaluation of the environmental effects of the flood channel road, located near Riparian View at Campus Drive.

Permitted Distribution Options:

Currently, IRWD has several options for the distribution of recycled water produced at MWRP. Under an existing Santa Ana Regional Water Quality Control Board permit, recycled water produced at MWRP is permitted to be distributed directly to customers for their use or to be stored in storage tanks and reservoirs for future use. Additionally, IRWD has the ability to send a limited amount of recycled water to Orange County Water District's Green Acres Project (GAP). IRWD's existing permit prohibits the direct diversion of its recycled water to surface waters, except from storage reservoirs during specified rain events or when the California Division of Safety of Dams requires the release through emergency valves for dam safety or other reasons. IRWD also currently has the ability to divert sewage to the Orange County Sanitation District (OCSD).

Consent Calendar: Addendum No. 4 to the MWRP Phase 2 and 3 Capacity Expansion Project Final Environmental Impact Report March 26, 2018
Page 2

Recycled Water Diversion under Emergency Conditions:

IRWD utilizes best management practices to balance recycled water supplies to meet its customer's demands. IRWD manages the storage of recycled water in its reservoir facilities while taking into consideration projected recycled water demands, supplemental water needs and potential rainfall amounts. Despite employing all available best management practices, some extreme weather events may occur in the future which could impact IRWD's ability to manage recycled water supplies. Additionally, when the IRWD Biosolids and Energy Recovery Facilities become operational at MWRP, IRWD's ability to divert sewage from MWRP to OCSD may be limited. These conditions illustrate the need for IRWD to have the ability to divert permit compliant disinfected and dechlorinated tertiary-treated recycled water from MWRP to an adjacent reach of San Diego Creek under emergency conditions. The proposed modifications that would be required to facilitate such diversions are analyzed in Addendum No. 4 to the FEIR.

Proposed Modifications:

IRWD proposes to install facilities to divert up to 33.0 million gallons per day (MGD) of dechlorinated recycled water to San Diego Creek under emergency conditions. Recycled water would initially be diverted through a new 24-inch diameter pipeline to the existing Stormwater Pump Station (SPS) No. 1, which discharges via an existing 24-inch pipeline into San Diego Creek. The proposed pipeline would be installed at grade (i.e., highline), located inside of the MWRP property boundary and associated floodwall. The diversion system would include a 24-inch valve for flow isolation, a pressure reducing valve, a flow meter, a dechlorination system, a potential nutrient (phosphorus) removal system and associated sampling and chlorine residual monitoring. When the MWRP is expanded to its ultimate capacity of 33 MGD, the emergency diversions may be routed to a new outlet structure in San Diego Creek adjacent to the MWRP. The diversion system would include the same isolation valve, pressure reducing valve, flow meter, automated dechlorination system, and nutrient removal system as described in the diversion system as needed. A project location map is attached as Exhibit "A".

Addendum No. 4:

Addendum No. 4 to the FEIR has been prepared pursuant to the California Environmental Quality Act (CEQA). This addendum analyzes the environmental consequences associated with diverting disinfected and dechlorinated tertiary-treated recycled water to San Diego Creek during certain emergency conditions.

Findings:

These proposed modifications to the MWRP Phase 2 and 3 Capacity Expansion Project, as described above, would not change the regulatory framework, impact discussion, mitigation measures or significant conclusions as described in the MWRP Phase 2 and 3 Capacity Expansion FEIR. Environmental review has been completed of the proposed modifications to the MWRP Phase 2 and 3 Capacity Expansion Project and Addendum No. 4 to the FEIR has been prepared. Based on information and analysis in the proposed Addendum No. 4, the Determination section of the Addendum sets forth the proposed determinations by the District

Consent Calendar: Addendum No. 4 to the MWRP Phase 2 and 3 Capacity Expansion Project

Final Environmental Impact Report

March 26, 2018

Page 3

that no conditions described in CEQA calling for the preparation of a subsequent EIR have occurred. A copy of Addendum No. 4 is attached as Exhibit "B".

FISCAL IMPACTS:

The cost for the environmental review associated with Addendum No. 4 is included in project 10093 in the FY 2017-18 Capital Budget. The existing budget and Expenditure Authorizations are sufficient at this time.

ENVIRONMENTAL COMPLIANCE:

Section 15164 of the CEQA Guidelines provides for the preparation of an addendum to a previously certified Environmental Impact Report (EIR) by a lead agency or a responsible agency if some changes or additions to the project are necessary but none of the conditions described in CEQA calling for preparation of a subsequent EIR have occurred. Based on the information and analysis in the proposed Addendum No. 4, the Determination section of the Addendum sets forth the proposed determinations by the District that none of such conditions have occurred.

COMMITTEE STATUS:

This item has not been reviewed by a Committee. Addendums to EIRs typically are not taken to Committee prior to submittal for Board approval.

RECOMMENDATION:

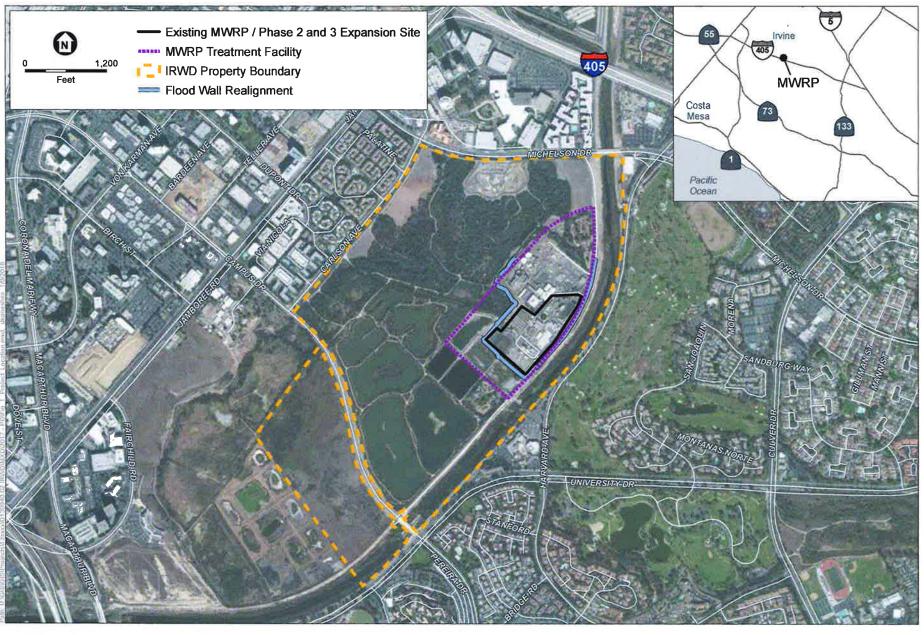
THAT THE BOARD APPROVE THE PROPOSED ADDENDUM NO. 4 TO THE MICHELSON WATER RECYCLING PLANT PHASE 2 AND 3 CAPACITY EXPANSION PROJECT'S FINAL ENVIRONMENTAL IMPACT REPORT, INCLUDING THE DETERMINATIONS SET FORTH IN ADDENDUM NO. 4, AND AUTHORIZE STAFF TO POST AND FILE A NOTICE OF DETERMINATION.

LIST OF EXHIBITS:

Exhibit "A" - Project Area Location Map

Exhibit "B" – Addendum No. 4 to the Michelson Water Recycling Plant Phase 2 and 3 Capacity Expansion Project Final Environmental Impact Report

EXHIBIT "A"



SOURCE: ESA, 2012.



Figure 1
Project Location

A COPY OF EXHIBIT "B" CAN BE OBTAINED FROM THE DISTRICT SECRETARY

March 26, 2018 Prepared and

submitted by: C. Compton Approved by: Paul A. Cook

CONSENT CALENDAR

2018 REGULAR LAFCO SPECIAL DISTRICTS REGULAR AND ALTERNATE SEAT ELECTION

SUMMARY:

The current term of office for one of the two Regular Special District seats on the Orange County Local Agency Formation Commission (LAFCO) and the Alternate Special District seat will expire on June 30, 2018. As a result, the Independent Special Districts Selection Committee has begun the nomination and election process for the LAFCO seats currently held by IRWD Director and LAFCO Commissioner John Withers and LAFCO Alternate Jim Fisler, a Director at the Mesa Water District. Commissioner Withers has indicated that he will be stepping down from his seat at LAFCO and will not be running for re-election.

As part of the election process, the Executive Officer of LAFCO is now accepting nominations for the positions and "Declaration of Qualification to Vote" forms designating the voting member and alternate for each special district seeking to vote in the election. The deadline for submitting nominations and the "Declaration of Qualification to Vote" is Monday, April 9, 2018, at 3:00 p.m. If more than one candidate is nominated for an open seat, ballots for election of the Special District LAFCO members will be mailed on April 17, 2018, and must be returned prior to May 25, 2018, at 3:00 p.m.

Staff recommends that the Board:

- Authorize the District Secretary to submit the "Declaration of Qualification to Vote" form designating President Doug Reinhart as IRWD's authorized voting member and Vice President Steve LaMar as IRWD's alternate voting member for the Orange County Special District Selection Committee election; and
- Authorize the District's designated voting member, or his alternate, to cast the District's ballot by the May 25, 2018, deadline.

BACKGROUND:

In April of even numbered years, the Independent Special Districts Selection Committee (Selection Committee) begins the nomination and election process for the LAFCO Special District seats expiring June 30 of that year. On March 5, the Executive Director of LAFCO, on behalf of the Selection Committee, sent a letter to each of Orange County's special districts notifying them of this year's nomination and election process for the Regular LAFCO Special District seat currently held by IRWD Director and LAFCO Commissioner John Withers, and the LAFCO Special District Alternate seat currently held by LAFCO Commission Jim Fisler. A copy of the letter is attached as Exhibit "A".

Consent Calendar: 2018 Regular LAFCO Special Districts Regular and Alternate Seat Election

March 26, 2018

Page 2

As part of the nomination and election process, each special district must designate its presiding officer to serve as its designated voting member and must designate a board member to serve as the alternate in the event the designated voting member is not available. The Selection Committee requires that each special district file the "Declaration of Qualification to Vote" form designating the voting member and alternate by April 9, 2018, at 3:00 p.m. Staff recommends that the Board authorize the District Secretary to submit the "Declaration of Qualification to Vote" form designating President Doug Reinhart as IRWD's authorized voting member and Vice President Steve LaMar, as IRWD's alternate voting member, for the Orange County Special District Selection Committee election prior to the April 9 deadline.

The deadline for submitting nominations for the open seat is also April 9. If more than one candidate is nominated for the open seat, ballots for election for the Special District LAFCO member will be mailed on April 17 and must be returned prior to May 25 at 3:00 p.m. In accordance with Government Code Section 56332(c)(1) and the Bylaws of the Orange County Special District Selection Committee, "if only one candidate is nominated for a vacant seat, that candidate shall be deemed selected, with no further proceedings" (Bylaws Article III, Section F). Staff recommends that the Board authorize the District's voting member, or his alternate, to cast the District's ballot before the May 25, 2018, deadline.

FISCAL IMPACTS:

None.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

RECOMMENDATION:

THE BOARD AUTHORIZE THE DISTRICT SECRETARY TO SUBMIT THE "DECLARATION OF QUALIFICATION TO VOTE" FORM DESIGNATING PRESIDENT DOUG REINHART AS IRWD'S AUTHORIZED VOTING MEMBER AND VICE PRESIDENT STEVE LAMAR AS IRWD'S ALTERNATE VOTING MEMBER FOR THE ORANGE COUNTY SPECIAL DISTRICT SELECTION COMMITTEE ELECTION; AND AUTHORIZE THE DISTRICT'S VOTING MEMBER, OR HIS ALTERNATE, TO CAST THE DISTRICT'S BALLOT BEFORE THE MAY 25, 2018, DEADLINE.

LIST OF EXHIBITS:

Exhibit "A" – Nomination Process for OC LAFCO Regular and Alternate Special District Member Seats



ORANGE COUNTY

March 5, 2018

TO:

Independent Special Districts Presiding Officers

DEREK J. MCGREGOR
Representative of
General Public

FROM:

Carolyn Emery, Executive Officer

VICE CHAIR
CHERYL BROTHERS
Councilmember

SUBJECT:

Nomination Process for OC LAFCO Regular and

Alternate Special District Member Seats

The terms of office for one of the OC LAFCO Regular Special District

Members and the Alternate Special District Member seats expire on

June 30, 2018. These two seats are currently held by John Withers, Board

City of Fountain Valley

LISA BARTLETT

Supervisor

DOC ALLAN BERNSTEIN
Councilmember

TODD SPITZER Supervisor 3ra District

City of Tustin

CHARLEY WILSON
Director
Santa Margarita Water District

JOHN WITHERSDirector
Irvine Ranch Water District

ALTERNATE
WENDY BUCKNUM
Councilmember
City of Mission Viejo

ALTERNATE

JAMES FISLER

Director

Mesa Water District

ALTERNATE
LOU PENROSE
Representative of
General Public

ALTERNATE
MICHELLE STEEL
Supervisor
200 District

CAROLYN EMERY Executive Officer Member of Irvine Ranch Water District and James Fisler, Director of Mesa Water District, respectively. The appointment process for special district seats is governed by Government Code Section 56332 and the Independent Special District Selection Committee By-Laws. In accordance with the Committee's bylaws, attached to this notification you will find the following:

(1) The "Declaration of Qualification to Vote Form" for designating

- (1) The "Declaration of Qualification to Vote Form" for designating the voting member (and alternate voting member) of your district, who is authorized to vote in the appointment process. This form must be returned to OC LAFCO no later than 3 PM on Monday, April 9, 2018. Please note that if OC LAFCO does not receive the form by that date, your district will be ineligible to vote.
- (2) The "2018 Nomination Form" for submitting candidate names for the Regular and Alternate Special District seat appointment. If your district is nominating a candidate for the OC LAFCO Regular and/or Alternate Special District Member seat, the form(s) must be filled out completely and returned to OC LAFCO no later than 3 PM on Monday, April 9, 2018. Candidate resumes, or other supplemental information may also be included and will be distributed with the ballots.

Both forms may be returned to OC LAFCO by any of the following:

Email: ccarter-benjamin@oclafco.org
Attn: Carolyn Emery, Executive Officer

Mail: Orange County LAFCO

2677 North Main Street, Suite 1050

Santa Ana, CA 92705

Attn: Carolyn Emery, Executive Officer

FAX: (714) 640-5139

Attn: Carolyn Emery, Executive Officer

For your reference a timeline of key dates for the appointment process is below:

Appointment Process for OC LAFCO Regular and Alternate Special District Member Seats								
DATE EVENT								
OC LAFCO Executive Officer emails notification letters with nomination forms and Declaration of Qualification								
March 5, 2018	to Vote to independent special district presiding officers, special district general managers, and OC LAFCO chair.							
	Deadline for submitting nominations and Declaration of							
April 9, 2018 (3 PM)	Qualification to Vote for regular and alternate spec district member to OC LAFCO by 3:00 p.m.*							
April 9 - 16, 2018	OC LAFCO develops ballot form.							
April 17, 2018	Ballots emailed to all special district presiding officers/designees.							
May 25, 2018 (3 PM)	Ballots due to OC LAFCO by 3:00 p.m.							
May 31, 2018	OC LAFCO staff (or designee) tabulates ballots and announces results.							
July 11, 2018 Oath of office administered (Commission Hearing).								
* Pursuant to Government Code §56332 (c)(1), if only one candidate is nominated for a vacant seat, that candidate shall be deemed selected, with no further proceedings.								

Should you have any questions regarding the appointment process, please contact me or our Commission Clerk, Cheryl-Carter Benjamin at (714) 640-5100.

Sincerely,

Executive Officer

Orange County LAFCO Special District Regular and Alternate Seat Appointments March 5, 2018 Page 3 of 3 $\,$

Attachments:

- A. Declaration of Qualification to Vote
- B. 2018 Nomination Forms Regular and Alternate Special District Member

cc: Special District General Managers Special District Board Clerks OC LAFCO Chair

DECLARATION OF QUALIFICATION TO VOTE

Doug Reinhart, Presiding Officer

Irvine Ranch Water District

15600 Sand Canyon Avenue

Irvine, CA 92618-3102

boardmail@irwd.com

,,* hereby attest that,* hereby attest that**has been authorized by the Board ofto vote in the Orange County Specia				
District S member	Selection Committee election (re			
The Boar voting m	rd also designated iember.	***as the alternate		
Name a	nd Title*:			
Signatu	re*:			
Date: _		Y .		
*Must be s	igned by either Board President <u>or</u> Board	Secretary		
** Must be	a member of the Board			
***Must be	a member of the Board			
	d forms must be received by OC LAFO ms must be delivered to OC LAFCO by			
	cemery@oclafco.org, or Orange County LAFCO 2677 North Main Street, Suite 1050 Santa Ana, CA 92705 Attn: Carolyn Emery, or (714) 640-5139, Attn: Carolyn Emery			

2018 NOMINATION FORM

Candidate for the Orange County Local Agency Formation Commission (OCLAFCO)

CAND!	IDATE INFORMATION FOR <u>REGULAR</u> SPECIAL DISTRICT MEMBER:
NAME:	ii .
TITLE:	
DISTRICT:	
	☐ Check box if resume or statement of qualifications is attached.
SPECIAL D	ISTRICT SELECTION COMMITTEE MEMBER SUBMITTING NOMINATION (Must be the presiding officer or a designated alternate board member.)
NAME:	DATE:
SIGNATURE:	
TITLE:	
DISTRICT:	

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

1. Email at: cemery@oclafco.org or

2. Mail at: Orange County LAFCO

2677 North Main Street, Suite 1050

Santa Ana, CA 92705; or

3. Fax at: (714) 640-5139, Attn: Carolyn Emery

All forms and supplemental information must be received by OC LAFCO <u>prior to</u> 3:00 p.m. on Monday, April 9, 2018. Nomination forms or candidate information received after that deadline will not be considered.

2018 NOMINATION FORM

Candidate for the Orange County Local Agency Formation Commission (OCLAFCO)

CANDIDATE INFORMATION FOR <u>ALTERNATE</u> SPECIAL DISTRICT MEMBER:						
NAME:						
TITLE:						
DISTRICT:						
	☐ Check box if resume or statement of qualifications is attached.					
SPECIAL DISTRICT SELECTION COMMITTEE MEMBER SUBMITTING NOMINATION (Must be the presiding officer or a designated alternate board member.)						
SPECIAL D	ISTRICT SELECTION COMMITTEE MEMBER SUBMITTING NOMINATION (Must be the presiding officer or a designated alternate board member.)					
	ISTRICT SELECTION COMMITTEE MEMBER SUBMITTING NOMINATION (Must be the presiding officer or a designated alternate board member.) DATE:					
NAME:	(Must be the presiding officer or a designated alternate board member.)					
NAME:	(Must be the presiding officer or a designated alternate board member.) DATE:					
NAME:SIGNATURE:	(Must be the presiding officer or a designated alternate board member.) DATE:					

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

- 1. Email at: cemery@oclafco.org or
- 2. Mail at: Orange County LAFCO

2677 North Main Street, Suite 1050

Santa Ana, CA 92705; or

3. Fax at: (714) 640-5139, Attn: Carolyn Emery

All forms and supplemental information must be received by OC LAFCO <u>prior to</u> 3:00 p.m. on Monday, April 9, 2018. Nomination forms or candidate information received after that deadline will not be considered.

March 26, 2018

Prepared by: W. Stewart/S. Malloy

Submitted by: K. Burton

Approved by: Paul A. Cook

CONSENT CALENDAR

MICHELSON WATER RECYCLING PLANT BIOSOLIDS AND ENERGY RECOVERY FACILITIES CONTRACT CHANGE ORDER NO. 76

SUMMARY:

Filanc/Balfour-Beatty (FBB) is constructing the Michelson Water Recycling Plant (MWRP) Biosolids and Energy Recovery Facilities (Biosolids Project). Contract Change Order (CCO) No. 76 includes costs for several structural, electrical, instrumentation, and controls items. Staff recommends that the Board approve CCO No. 76 in the amount of \$150,690.04 with FBB.

BACKGROUND:

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

CCO No. 76:

Staff negotiated with FBB and agrees to the labor and material costs contained in CCO No. 76, in the amount of \$150,690.04, which contains the following items:

- Power Feed to Microturbine Capstone Logic Controllers in the amount of \$49,534.35 Additional electrical conduits and cables are required for the Capstone Logic Controllers (CLCs). The single CLC replaces the five individual controllers and was added by the microturbine manufacturer after the bid to allow for better monitoring of the microturbines. This item is for the labor and material to install the additional conduits and cables.
- Upsizing of Electrical Cables related to the Heat Drying System in the amount of \$4,670.94 Electrical cables that service the heat drying system were required to be upsized due to changes made by the dryer supplier during the submittal process. This item is for the labor and material to install the upsized the electrical cables.
- Additional Cables to MCC-1 in the amount of \$5,679.24 To conform with the heat dryer's electrical requirements, several modifications to the electrical cabling are required. These modifications include additional cables for the motor space heaters on

Consent Calendar: Michelson Water Recycling Plant Biosolids and Energy Recovery Facilities Contract Change Order No. 76

March 26, 2018

Page 2

the RTO air combustion fans and the pellet bin activator. This item is for the labor and material costs to add the additional cables.

- Electrical Code Area Classification Change at the Digester Gas Foam Separator in the amount of \$8,804.31 To comply with fire code requirements, it was concluded that all electrical equipment on the biogas foam separator be changed to Class 1, Division 1. This will increase the safety in the area outside the acid gas booster room of the Digester Control Building. This item is for the labor and material to make the necessary classification change.
- Addition of Water Source for the Foam Separator in the amount of \$8,418.23 A water source for the biogas foam separator outside the Digester Control Building was required. This item is for the labor and material to add the one-inch copper line.
- SCADA Modifications in Various Process Areas in the amount of \$47,170.62 For better monitoring and control, SCADA modifications were made in various process areas based on discussions during programming workshops. The modifications allow for more flexibility for MWRP Operations. The modifications were made in the Solids Handling Polymer Systems, Dewatering Centrifuges, Sludge Holding Tanks, and the FOG System. This item is for the additional SCADA programming and documentation.
- Solids Handling Building Stair Modifications in the amount of \$26,412.35 Modifications are required to a stair in the Solids Handling Building to resolve conflicts with the heat dryer pellet silo structure. This item is for the labor to make the necessary changes.

Staff recommends that the Board approve CCO No. 76 in the amount of \$150,690.04, which is attached as Exhibit "A". Items that do not claim or grant additional time are considered full compensation for those items. If items require additional time, the items included in this change order are full compensation except for time impacts. The Contractor reserves the right to claim time impacts, but the Contractor must show any time impacts to the project's critical path and how IRWD is responsible for these time impacts. Resolution of these time impacts is scheduled for a later date. CCO No. 76 does not extend any of the milestone completion dates.

The construction change order summary is attached as Exhibit "B". The following is a summary of the change order categories:

		% of
		Original
Category	Total Amount	Contract
A - District Convenience/Initiation - Project Related	\$ 2,955,375.78	1.81%
B - Differing Site Conditions	\$12,544,596.80	7.67%
C - Design Oversight	\$ 3,290,994.84	2.01%
D - District Convenience/Initiation - Non-Project Related	-	0.00%
E - Contractor Convenience/Initiation	\$ 98,302.54	0.06%
F - Contractor Requested Inspection Overtime	\$ (262,020.00)	-0.16%
TOTAL (All Items A - F)	\$18,6278,239.96	11.40%

Consent Calendar: Michelson Water Recycling Plant Biosolids and Energy Recovery Facilities Contract Change Order No. 76
March 26, 2018
Page 3

FISCAL IMPACTS:

The MWRP Biosolids and Energy Recovery Facilities Project 04286 is included in the FY 2017-18 Capital Budget. The existing budget is sufficient to fund the change order.

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on March 20, 2018.

RECOMMENDATION:

THAT THE BOARD APPROVE CONTRACT CHANGE ORDER NO. 76 IN THE AMOUNT OF \$150,690.04 WITH FILANC/BALFOUR BEATTY FOR ELECTRICAL, INSTRUMENTATION, CONTROLS, AND STRUCTURAL MODIFICATIONS FOR THE MICHELSON WATER RECYCLING PLANT BIOSOLIDS AND ENERGY RECOVERY FACILITIES, PROJECT 04286.

LIST OF EXHIBITS:

Exhibit "A" – Contract Change Order No. 76 with FBB Exhibit "B" – Construction Change Order Summary

CONTRACT CHANGE ORDER

EXHIBIT "A"



Irvine Ranch Water District

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

C.O. No.	76		
Final			
Project No.	04286		

MWRP Biosolids and Energy Recovery Facilities

Project Title Date: __03/01/2018

Tioject Title			
THE FOLLOWING CHANGE TO CONTRACT, DRAWINGS AND SPECIFICATIONS IS PROPOSED.	\$ ADDITIONS	\$ DELETIONS	DAYS ±
1. Power Feed to Microturbine CLC (CR-289) PR 04286 Task 5.30	\$49,534.35	\$0.00	See Notes
2. Upsizing of Electrical Cables related to the Heat Drying System (CR-510) PR 04286 Task 5.30	\$4,670.94	\$0.00	See Notes
3. Additional Cables to MCC-1 (CR-538) PR 04286 Task 5.30	\$5,679.24	\$0.00	See Notes
4. Electrical Code Area Classification Change at the Digester Gas Foam Separator (CR-582A) PR 04286 Task 5.30	\$8,804.31	\$0.00	See Notes
5. Addition of Water Source for the Foam Separator (CR-583) PR 04286 Task 5.31	\$8,418.23	\$0.00	See Notes
6. SCADA Modifications on Solids Handling Polymer System (CR-620) PR 04286 Task 5.30	\$7,761.00	\$0.00	See Notes
7. 3-Way Valve Graphical Modifications to SCADA (CR-621) PR 04286 Task 5.30	\$22,540.18	\$0.00	See Notes
8. SCADA Modifications on FOG System (CR-623) PR 04286 Task 5.30	\$7,970.58	\$0.00	See Notes
9. SCADA Modifications on the Digested Sludge Tank Level (CR-626) PR 04286 Task 5.30	\$8,898.86	\$0.00	See Notes
10. Solids Handling Building Stair Modifications (CR-634) PR 04286 Task 5.20	\$26,412.35	\$0.00	See Notes
Notes:			
1. For all items noted above, the Contractor reserves the right to compensable and/or excusable time extensions provided that time impacts to the Project's critical path are demonstrated to be			
beyond the Contractor's control. 2. Contractor reserves any and all rights it has and otherwise			
does not waive or release any claims it may have for additional			
compensation related to impact, including but not limited to the cumulative effect of the number, nature, or extent of any			
changes or design clarifications.			
3. The project completion date of October 31, 2017 per CCO			
No. 45 is unchanged by this Change Order.	0150 (00 04	#0.00	0
TOTAL	\$150,690.04	\$0.00	0

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

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

I. NET AMOUNT THIS CHANGE ORDER		\$150,690.04	0
2. ORIGINAL CONTRACT AMOUNT	=	\$163,465,940.00	1,278
3. TOTAL PREVIOUS CHANGE ORDER(S)	22	\$18,476,449.92	368
4. TOTAL BEFORE THIS CHANGE ORDER (2+3)	=	\$181,942,389.92	1,646
5. PROPOSED REVISED CONTRACT AMOUNT TO DATE	(1+4) =	\$182,093,079.96	1,646

	Filanc/Balfour-Ber	atty	
Date	Contractor		By: Harry Cosmos, President
SIGNATURE		DATE	APPROVAL LEVEL REQUIRED
			Department Director Approval Required
IRWD Engineer or Consulting Engine	er	Date	Executive Director Approval Required General Manager Approval Required
Principal Engineer		Date	Board Approval Required
Executive Director of Engineering &	Water Quality	Date	
General Manager		Date	Purchase Order No.

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

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

EXHIBIT "B"

							Contract Arr						ract Days		Original Completion Date:
Cha	nge Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Original Contra Cumulative Total of Change Orders	% of Original Contract Amount	\$163,465,940.00 Revised Contract Amount	Change Order Days	Previous Change	Total	1,278 Revised Total Contract Days	Revised Completion Date
1	1.1	Approved by Exe. Director of Engineering and Water Quality Approved on October 24, 2013 Modifications to Road to Development Area - Delete AC to Triangle, add AB to Michelson (CR-004)	A	IRWD	\$ 20,202.42	\$20,202.42	\$0.00	\$20,202.42		\$163,486,142.42	0	0	0	1,278	
2	2.1	Approved by Exe. Director of Engineering and Water Quality Approved on November 13, 2013 Street Light Conduit Modifications (CR-007)	В	IRWD	\$ 12,475.08	\$12,475.08	\$20,202.42	\$32,677.50	0.02%	\$163,498,617.50	0	0	0	1,278	10/28/2016
3		Approved by Board of Directors Approved on March 10, 2014 Bid Quantity Adjustment of Bid Item 8.6 Pre-Drill	В	FBB	\$ 745,503.00	\$745,503,00	\$32,677.50	\$778,180.50	0.48%	\$164,244,120.50	0	0	0	1,278	10/28/2016
4	4.1 4.2	Approved by Exe Dir of Eng & Water Quality Approved on March 14, 2014 Installation of Five Additional Groundwater Wells and Monitoring – (CR-006) PR 21146 (4286) Task 3505 Brace Bay Modifications at the FOG Station – (CR-015) PR 21146 (4286) Task 3505 Grounding Extension at Nitrogen and Mineral Oil System (CR-025) PR 21146 (4286) Task 3510	A C C	IRWD FBB IRWD	\$11,047.81 \$2,977.81 \$9,003.60	\$23,029.22	\$778,180.50	\$801,209.72	0.49%	\$164,267,149.72	0 0	0	0	1,278	10/28/2016
5	5.2	Approved by Exe Dir of Eng & Water Quality Approved on March 14, 2014 Unidentified Utility - Meter Shop Discharge (CR-008) PR 21146 (4286) Task 3505 Connection Beam Modifications at Solids Handling Facility (CR-014) PR 21146 (4286) Task 3235 Increased Grating Thickness at Solids Handling Facility (CR-041) PR 21146 (4286) Task 3505	B C C	IRWD FBB FBB	\$15,225.75 \$8,270.86 \$1,355.12	\$24,851.73	\$801,209.72	\$826,061.45	0.51%	\$164,292,001.45	0 0	o c	0	1,278	10/28/2016
6	6.1	Approved by General Manager Approved on March 20, 2014 Additional Costs to Install Piles to the Design Tip (CR-033) PR 21146 (4286) Task 3505	В	FBB	\$31,815,00	\$31,815.00	\$826,061.45	\$857,876.45	0.52%	\$164,323,816.45	0	0	0	1,278	10/28/2010

A - District Convenience/Initiation - Project Related
B - Differing Site Conditions
C - Design Oversight
D - District Convenience/Initiation - Non-Project Related
E - Comractor Convenience/Initiation
F - Contractor Requested Inspection Overtime

							Contract An			0162 465 040 00			ract Days	1.070	Original Completion Date:
	-			mum	Change Order Line	Change Order	Previous Change	Original Contra	% of	\$163,465,940.00 Revised Contract	Change	Previous	ginal Days: Cum.	1,278 Revised Total	10/28/2016 Revised
Chang	ge Order	Description	Category	IRWD or FBB	Item Amount	Amount	Orders	of Change Orders	Original Contract Amount	Amount	Order Days	Change Orders	Total C.O. days	Contract	Completion Date
7		Approved by Exe Dir of Eng & Water Quality Approved on April 21, 2014				\$24,725.00	\$857,876.45	\$882,601.45	0.54%	\$164,348,541.45	0	0	0	1,278	10/28/2016
	7.1	Meter Shop Discharge Pipe Leak Investigation and Repair (CR-013) PR 21146 (4286) Task 3505	В	IRWD	\$2,542.00						0				
	7.2	Additional Reinforcement and Lifting Eyes for Removable Slabs at Solids Handling Building (CR-021) PR 21146 (4286) Task 3505	С	FBB	\$14,059.00						0				
		Increased Grating Thickness at Solids Handling Facility (CR-041) PR 21146 (4286) Task 3505Additional Conductance Probe Materials for Relay Level Switches for Various Sumps Located at the Microturbine Area PR 21146 (4286)	С	FBB	\$8,124.00						0				
		Task 3510												1.000	
8		Approved by General Manager Approved on April 21, 2014				(\$49,990.00)	\$882,601.45	\$832,611.45	0.51%	\$164,298,551.45	0			1,278	10/28/2016
		Cost Sharing for Project Partnering (CR- Credit for Primavera 7.0 Project Portfolio Management Software (CR-002) PR 21146 (4286) Task 3235	A A	IRWD IRWD	(\$14,611.00) (\$2,700.00)						0				
		Deletion of Concrete Pad near Development Area (CR-004A) PR 21146 (4286) Task 3235	A	IRWD	(\$3,865.00)						0		.5		
		Deletion of Ground Test Device (CR-034) PR 21146 (4286) Task 3210 Deletion of Existing T-4 Switchgear Level Indicating Switch (CR-035) PR	A	IRWD IRWD	(\$15,579.00) (\$9,167.00)						0				
		21146 (4286) Task 3210	_ ^	IKWD	, , ,						ľ				
	8.6	Change to NEMA 4X Panels and Modification to NEMA 4X Bar Graph Display (CR-046) PR 21146 (4286) Task 3210	A	IRWD	(\$4,068.00)						0				
9		Approved by Exe, Director of Eng. & Water Quality Approved on May 31, 2014				\$24,840.17	\$832,611.45	\$857,451.62	0.52%	\$164,323,391.62	0		0	1,278	10/28/2010
		Additional Circuits for Gas Monitors and Re-route of Conduits in Solids Handling Facility (CR-028) PR 21146 (4286) Task 3510 Cantilevered Beam Support Modifications in the Solids Handling Facility (CR-	C	FBB FBB	\$1,187.49 \$4,605,30						0				
		049) PR 21146 (4286) Task 3505 Additional Ethernet Switches (CR-062) PR 21146 (4286) Task 3510		IRWD	\$19,047.38						0				
10	9.3	Approved by Exe. Director of Eng. & Water Quality	С	IKWD	\$17,047.30	\$21,398.99	\$857,451.62	\$878,850.61	0.54%	\$164,344,790.61	.0		0	1,278	10/28/2010
	10.1	Approved on May 31, 2014	С	IRWD	\$8,580.62						0				
	10.2	Additional Grace Ports for Various PLCs (CR-030) PR 21146 (4286) Task 3510 Provide H-20 Rated Hatches at WAS Pump Station and Valve Vault (CR-061) PR 21146 (4286) Task 3505	С	IRWD	\$12,818.37						0				

A - District Convenience/Imitiation - Project Related B - Differing Site Conditions C - Design Oversight D - District Convenience/Imitiation - Non-Project Related E - Contractor Convenience/Imitiation F - Contractor Requested Inspection Overtime

							Contract An	nount				Contr	act Days		Original Completic Date:
								Original Contra	ect Amount:	\$163,465,940.00		Orig	inal Days:	1,278	10/28/20
Change	e Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders		Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completic Date
		Approved by Exe. Director of Eng. & Water Quality Approved on June 4, 2014				\$24,739.76	\$878,850.61	\$903,590.37	0.55%	\$164,369,530.37	#REF!	0	#REF!	#REF!	10/28/20
	11.1	Waste Activated Sludge (WAS) Pump Station Structural Modifications (CR- 023) PR 21146 (4286) Task 3505	С	IRWD	\$12,905.49						0				
	11,2	Removable Slab Modifications on the Second Floor of Solids Handling Building (CR-064) PR 21146 (4286) Task 3505	С	IRWD	\$11,834.27						0				
	12.1	Approved by Board of Directors Approved on July 21, 2014 Final Bid Quantity Adjustment for Bid Item No. 5.2 – Undocumented Fill (suitable) – Remedial Grading – Remove and Re-compact a net increase of	В	N/A	\$40,523.37	\$156,580.22	\$903,590.37	\$1,060,170.59	0.65%	\$164,526,110.59	0	0	0	1,278	10/28/20
	12.2	8,104.7 CY from 51,700 CY to 59,804.7 CY at \$5/CY. PR 21146 (4286) Task 3505 Final Bid Quantity Adjustment for Bid Item No. 5.5 - Undocumented Fill (not suitable) - Remedial Grading - Remove and Export Offsite, a net increase of 60	В	N/A	\$1,500.00						0				
	12.3	CY, from 1,800 CY to 1,860 CY at \$25 /CY. PR 21146 (4286) Task 3505 Final Bid Quantity Adjustment for Bid Item No. 5.6 - Geotextile Fabric - Remedial Grading, a net decrease of 5,414 SF, from 181,500 SF to 176,086 SF at \$0.40/SF. PR 21146 (4286) Task 3505	В	N/A	(\$2,165.60)						0				
	12.4	Final Bid Quantity Adjustment for Bid Item No. 5.6 - Geotextile Fabric - Remedial Grading, a net decrease of 5,414 SF, from 181,500 SF to 176,086 SF at \$0.40/SF. PR 21146 (4286) Task 3505	В	N/A	(\$6,523.33)						0				
	12.5	Final Bid Quantity Adjustment for Bid Item No. 5.8 - Undocumented Fill - Deep Foundations - Removal, a net increase of 966 CY, from 21,650 CY to 22,616 CY at \$5.50/CY. PR 21146 (4286) Task 3505	В	N/A	\$5,313.00						0				
	12,6	Final Bid Quantity Adjustment for Bid Item No. 5.9 - Alluvium - Remedial Grading - Removal and Export Offsite, a net increase of 2,076 CY, from 28,154 CY to 30,230 CY at \$35/CY. PR 21146 (4286) Task 3505	В	N/A	\$72,665.98						0				
	12.7	Final Bid Quantity Adjustment for Bid Item No. 5.10 - Undocumented Fill Deep Foundations - Corrapaction of stockpiled materials, a net increase of 3,117 CY, from 11,400 CY to 14,517 CY at \$15/CY. PR 21146 (4286) Task 3505	В	N/A	\$46,755.00						0				
	12.8	Final Bid Quantity Adjustment for Bid Item No. 5.11 - Undocumented Fill - Deep Foundations - Export excess offsite a net decrease of 2,151 CY, from 10,250 CY to 8,099 CY PR 21146 (4286) Task 3505	В	N/A	(\$30,114.00)						0			,	

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D - District Convenience/Initiation - Non-Project Related
E - Contractor Convenience/Initiation
F - Contractor Requested Inspection Overtime

							Contract Arr			A. 52 J. 52 B. 10 B. 10			ract Days		Original Completion Date:
Change	e Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Original Contra Cumulative Total of Change Orders	% of Original Contract Amount	\$163,465,940.00 Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total	Revised Completio Date
	12.10	Final Bid Quantity Adjustment for Bid Item No. 5.12 - Geotextile Fabric - Deep Foundations, a net increase of 9,218 SF, from 51,500 SF to 60,718 SF at \$0.60/SF. PR 21146 (4286) Task 3505 Final Bid Quantity Adjustment for Bid Item No. 5.13 - Aggregate Base - Deep Foundations, a net increase of 513.2 CY, from 2,860 CY to 3,373.2CY at \$45/CY. PR 21146 (4286) Task 3505	В	N/A N/A	\$5,530.80 \$23,095,00						0				
13	13.1	Approved by Exe. Director of Engineering & Water Quality Approved on July 10, 2014 Modifications to Switchgear 16 (CR-070) PR 21146 (4286) Task 3510	A	FBB	\$10,129.18	\$10,129.18	\$1,060,170.59	\$1,070,299.77	0.65%	\$164,536,239.77	0	0	0	1,278	10/28/201
14		Approved by General Manager Approved on June 24, 2014 Slide Gates Clarification Regarding Actuators (CR-039) PR 21146 (4286) Task 3520	A	IRWD	\$44,543.19	\$44,543.19	\$1,070,299.77	\$1,114,842.96	0.68%	\$164,580,782,96	0	0	0	1,278	10/28/201
15		Approved by General Manager Approval on July 31, 2014 Provide Masonry Shelf Angle at Digester Control Building (CR-031) PR 21146 (4286) Task 3505	С	FBB	\$27,543.19	\$45,214.40	\$1,114,842.96	\$1,160,057.36	0.71%	\$164,625,997.36	0	0	0	1,278	10/28/201
		Beam Size Increase for Monorail Runway in Solids Handling Building - (CR-074) PR 21146 (4286) Task 3505 Upsize Odor Control Circulation Pump Motor Disconnects (CR-082) PR 21146	СВ	FBB FBB	\$1,200.47 \$1,184.83						0				
	15.4	(4286) Task 3510 Additional Deck Support for the Solids Handling Building Roof (CR-044) PR 21146 (4286) Task 3505	С	FBB	\$15,285.91						0				
16		Approved by E&O Committee Approved on August 19, 2014 Installation of Level 3 Diesel Particulate Filter (DPF) on the Standby Generator - (CR-073) PR 21146 (4286) Task 3520	В	IRWD	\$62,037.10	\$62,037.10	\$1,160,057.36	\$1,222,094.46	0.75%	\$164,688,034.46	0	0	0	1,278	10/28/201
17	17.1	Approved by Board of Directors Approved on August 25, 2014 Modifications to Switchgear 16 (CR-070A) PR 21146 (4286) Task 3510	A	FBB	(\$106,241.99)	(\$106,241.99)	\$1,222,094.46	\$1,115,852.47	0.68%	\$164,581,792.47	0) (0	1,278	10/28/201
18		Approved by Board of Directors Approved on August 25, 2014 Storrnwater Drainage System Modification (CR-017) PR 21146 (4286)	A	IRWD	\$108,087.55	\$108,087.55	\$1,115,852.47	\$1,223,940.02	0.75%	\$164,689,880.02	0	0	0	1,278	10/28/201

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							Contract Am	ount				Cont	ract Days		Original Completion Date:
								Original Contra	ct Amount:	\$163,465,940.00		Ori	ginal Days:	1,278	10/28/2016
Change	Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Curnulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders		Revised Total Contract Days	Revised Completion Date
19		Approved by Executive Director of Engineering & Water Quality Approved on September 30, 2014		mum	01 105 75	\$72,572.86	\$1,223,940.02	\$1,296,512.88	0.79%	\$164,762,452.88	0	0	0	1,278	10/28/2016
	19.2	Modification to Switchgear 16 (CR-070B) PR 21146 (4286) Task 3510 Alluvium Removal Due to 36-inch Storm Drain Installation (CR-085) PR 21146 (4286) Task 3520	В	IRWD N/A	\$1,125.75 \$14,140.00						0				
		Additional Structural Support for Fats, Oils, and Grease (FOG) Grinders (CR-081) PR 21146 (4286) Task 3505	С	FBB	\$8,323.99						0				
	19.5	Portable Lift Truck for 480V ABB Breakers (CR-108) PR 21146 (4286) Task 3510 Retaining Wall North and West of Biosolids Site (CR-010) PR 21146 (4286) Task 3505	A B	IRWD IRWD	\$2,625,12 \$46,358.00						0				
20		Approved by Executive Director of Engineering & Water Quality Approved on November 19, 2014				\$54,485.63	\$1,296,512,88	\$1,350,998.51	0,83%	\$164,816,938.51	0	0	0	1,278	10/28/2010
	20.1	Nitrogen Slab Modifications (CR-052) PR 21146 (4286) Task 3505	A	IRWD	\$24,855.80						0				
		Additional Conduits and Circuits for the Access Control Systems for the Solids Handling Building and the Digester Control Building (CR-082) PR 21146	A	IRWD	\$3,412.13						0				
		Digital Power Meters Change for SWGR-14 and SWGR-15 (CR-109) PR 21146 (4286) Task 3510	A	IRWD	\$3,863.22						0				
	20.4	Truck Unloading Panel Modifications (CR-115) PR 21146 (4286) Task 3510	A	IRWD	\$12,843.50						0				
	20.5	Switchgear SWGR-14 Modifications (CR-116) PR 21146 (4286) Task 3510	A	IRWD	\$9,510.98						0				
21		Approved by General Manager Approved on January 30, 2015			#00 167 tt	\$ 98,506.19	\$1,350,998.51	\$1,449,504.70	0.89%	\$164,915,444.70	0) (0	1,278	10/28/2010
		Additional Anchorage for Methane Digesters (CR-051A) PR 21146 (4286) Task 3520		FBB	\$92,367.44						١				
		Additional Input/Outputs Review of Master I/O List (CR-136) PR 21146 (4286) Task 3510	С	FBB	\$6,138.75						0				

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						Contract An	nount				Contr	act Days		Original Completion Date:
							Original Contra	ct Amount:	\$163,465,940.00		Orig	ginal Days:	1,278	10/28/2016
Change Ord	er Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount		Previous Change Orders		Revised Total Contract Days	Revised Completion Date
22	Approved by Board of Directors Approved on February 9, 2015				\$964,324.51	\$1,449,504.70	\$2,413,829.21	1.48%	\$165,879,769.21	0	0	0	1,278	10/28/2010
	22,1 Electrical Conduit Overfill (CR-055) PR 21146 (4286) Task 3510	С	FBB	\$485,250.28						0				1
	22.2 Heat Dryer Equipment Escalation Costs (CR-057) PR 21146 (4286) Task 3520	В	FBB	\$333,477.50						0				
	22.3 Glass-lining Sludge Density Meters (CR-067) PR 21146 (4286) Task 3510	A	IRWD	\$71,010,74						0				
	22.4 Switchgear-16 Enclosure (CR-040) PR 21146 (4286) Task 3510	С	FBB	\$56,882.30						0				ľ
	22.5 Propane Gas Tank Foundation Demolition (CR-084) PR 21146 (4286) Task 3505	С	IRWD	\$2,004.98						0				
	22.6 Credit for travel costs related to inspection of centrifuges in Germany (CR-091) PR 21146 (4286) Task 3520	A	IRWD	(\$5,573.42)						0				
	22.7 Deletion of MMC Switchgear-14 Breaker (CR-092) PR 21146 (4286) Task 3510	A	IRWD	(\$5,032.00)						0				
	22.8 Increase of Fiber Optic Conduit Size (CR-097) PR 21146 (4286) Task 3510	С	IRWD	\$23,269.61						0				
	22.9 Overtime to perform work in the Solids Handling electrical room (CR-103) PR 21146 (4286) Task 3510	A	IRWD	\$1,384.47						0				
2	2.10 Credit for modification to the Uninterruptible Power System (CR-118) PR 21146 (4286) Task 3510	A	IRWD	(\$9,771.72)						0				
2	(14286) Task 3510 11 Addition of Low Voltage Compartment in SCE Switch "C" (CR-160) PR 21146 (4286) Task 3510	A	IRWD	\$2,156.20						0				
2	2.12 Addition of input/output points relating to sump pumps located at the Solids Handling Building (CR-161) PR 21146 (4286) Task 3510	A	FBB	\$9,265.57						0				

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							Contract Arr						act Days		Original Completion Date:
								Original Contra		\$163,465,940.00		Orig	inal Days:		10/28/2016
Char	nge Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
23		Approved by General Manager Approved on February 26, 2015				\$97,005.10	\$2,413,829.21	\$2,510,834,31	1.54%	\$165,976,774.31	0	0	0	1,278	10/28/2016
	23,1	Additional Steel Reinforcement the Pellet Storage Silos Anchor Bolts (CR-094) PR 21146 (4286) Task 3505	В	FBB	\$5,514.57						0				
	23,2	Differential Pressure Transmitter (CR-094) PR 21146 (4286) Task 3510	A	IRWD	\$2,535.33						0				
	23.3	Additional Aluminum Trench Grating in Digester Control Building (CR-107) PR 21146 (4286) Task 3520	A	IRWD	\$7,552.11						0				
	23.4	Light Weight Concrete for Electrical Conduits Underneath the Solids Handling Building Electrical Room (CR-113) PR 21146 (4286) Task 3510	A	IRWD	\$30,535.94						0				
	23.5	Adding Energyjets Weir Plates to Dewatering Centrifuges - (CR-124) PR 21146 (4286) Task 3520	A	IRWD	\$11,139.25						0				
	23.6	Provide Angle Supports for the Removable Slabs at the Solids Handling Building – (CR-137) PR 21146 (4286) Task 3520	A	IRWD	\$20,671.61						0				
	23.7	Structural Modification at Solids Handling Building – (CR-140) PR 21146 (4286) Task 3520	С	FBB	\$1,109.42						0				
		Increase of Fiber Optic Conduit Size (CR-097) PR 21146 (4286) Task 3510 Steel Joist Framing Modifications at Digester Control Building (CR-151) PR	A C	IRWD FBB	\$5,516.45 \$2,286.29						0				
	23.10	21146 (4286) Task 3505 WAS Valve Vault and Piping Modifications (CR-100) PR 21146 (4286) Task 3520	A	IRWD	\$10,144.13						0				
24		Approved by General Manager Approved on March 6, 2015				\$99,122.95	\$2,510,834.31	\$2,609,957.26	1.60%	\$166,075,897.26	0	0	0	1,278	10/28/2016
	24.1	Coating of WAS/Primary Sludge Pump Stations & Sludge Wetwells per RFI- 0612A (CR-127) PR 21146 (4286) Task 3505	A	FBB	\$99,122.95						0				
25		Approved by Board of Directors Approved on March 23, 2015				\$280,575.97	\$2,609,957.26	\$2,890,533.23	1.77%	\$166,356,473.23	0	0	0	1,278	10/28/2010
	25.1	Lightning Protection for the Methane Digesters (CR-121) PR 21146 (4286) Task 3505	С	FBB	\$158,259.68						0				
	25.2	Deflagration Quench Tubes outside of the Dryer Room (CR-143) PR 21146 (4286) Task 3505	В	FBB	\$122,316,29						0				

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							Contract Arr						act Days		Original Completion Date:
								Original Contra	100	\$163,465,940.00		Отід	inal Days:	1,278	10/28/201
Chan	ge Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
26		Approved by Exe. Dir. Of Engineering & Water Quality Approved on April 14, 2015				\$74,815.79	\$2,890,533,23	\$2,965,349.02	1.81%	\$166,431,289,02	0	0	0	1,278	10/28/201
	26.1	UPS and Power Fail Alarms per RFI 357 (CR-056) PR 21146 (4286) Task 3510	С	FBB	\$3,646.82						0				
		I/O Points for Methane Digester Sump Pumps per RFI-356 (CR-077) PR 21146 (4286) Task 3510	С	FBB	\$6,489.00						0				
	26.3	Loss of Power Alarms to the SCADA Network per RFI-0393B (CR-093) PR	A	FBB	\$20,297.16						0				
	26.4	FOG Flushing and Rock Trap Modifications per RFI-0534 (CR-101) PR 21146	A	IRWD	\$18,093.61						0				
		Install Grounding Pig Tails in Solids Handling Building Area Electrical Room per RFI 0594 (CR-105) PR 21146 (4286) Task 3510	A	IRWD	\$1,593.10						0				
	26.6	Additional Pushbuttons, Light and Relays for the FOG Receiving Control Panel (CR-114) PR 21146 (4286) Task 3510	A	IRWD	\$6,892.40						0				
		Changes to the HMI Enclosures at the Sludge Receiving Area (CR-133) PR 21146 (4286) Task 3510	A	IRWD	\$7,114.17						0				
		Provide Storage Shelf for Keyboard and Mouse to the HMI Enclosures at the Sludge Receiving Area (CR-135) PR 21146 (4286) Task 3510	A	IRWD	\$1,163.26						0				
	26.9	Dewatering Feed Pump Station Guardrail Additions (CR-142) PR 21146 (4286) Task 3520	C	FBB	\$4,204.00						0				
		Additional I/O Points for PLC-4300 (CR-156) PR 21146 (4286) Task 3510	С	FBB	\$3,035.28						0				
	26.11	Shoring Revision to Roof Slab of Dewatering Feed Pump Station (CR-189) PR 21146 (4286) Task 3510	В	FBB	\$1,286.99						0				
	26.12	Coating of the Sludge Receiving Bins (CR-199) PR 21146 (4286) Task 3520	A	FBB	\$1,000.00						0				
27		Approved by Board of Directors Approved on April 27, 2015				\$107,253.26	\$2,965,349.02	\$3,072,602.28	1.88%	\$166,538,542.28	0	0	0	1,278	10/28/201
	27.1	Modifications to Human-Machine Interface (HMI) for the Microturbine Area (CR-078) PR 21146 (4286) Task 3510	A	IRWD	\$29,744.43						0				
	27.2	Modifications to the Piping and Automation Features at Fats, Oils, and Grease (FOG) Facility (CR-129) PR 21146 (4286) Task 3510	A	IRWD	\$35,771.81						0				
	27.3	Structural Support to the Monorail at the Dewatering Feed Pump Station (CR-152) PR 21146 (4286) Task 3505	С	FBB	\$13,697.51						0				
	27.4	Two Additional Magnetic Flowmeters at Polymer Feed System (CR-158) PR 21146 (4286) Task 3510	A	IRWD	\$9,522.81						0				
	27.5	Modifications to PLCs at Sludge Receiving Area (CR-180) PR 21146 (4286) Task 3510	A	IRWD	\$18,516.70						0				0

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F - Contractor Convenience/Initiation

Contractor:

							Contract An		2010 - 2010 (2010)	6172 475 040 00			ract Days	1,278	Original Completion Date: 10/28/2016
Cha	nge Order	Description	Category	IRWD or	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Original Control Cumulative Total of Change Orders	% of Original	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total	Revised Total	Revised Completion Date
28		Approved by Exe. Dir. Of Eng, & Water Quality Approved on May 15, 2015	С	FBB	\$22,451.01	\$74,550.35	\$3,072,602.28	\$3,147,152,63	1.93%	\$166,613,092.63	0	0	0	1,278	10/28/2016
		Decanter Control Panel Modifications (CR-215) Task 3520 Additional Structural Support in the Solids Handling Building (CR-075) Task 3505	С	FBB	\$12,028.44						0				
	28.3	Additional Sump Pump Drain Line in the Bulk Polymer Storage Area (CR-119) Task 3520	С	FBB	\$1,433.86						0				
	28.4	Install Three 5-inch conduits on Southwest Side of the Biosolids Site (CR-120) Task 3510	С	FBB	\$16,033.58						0				
		Provide Power to Several Instruments Located at the Solids Handling Building and Digester Control Building (CR-154) Task 3520	С	FBB	\$3,454.91						0				
	28.6	Install Foam Separator Drain at Digester Control Building (CR-167) Task 3520	С	FBB	\$11,013.75						0				
	28.7	Install Support for 14-inch Plug Valve at Centrate Treatment Wetwell (CR-197) Task 3520	С	FBB	\$1,715.20						0				
		Trench Modifications at the Sludge Cake Load-Out Area of the Solids Handling Building (CR-123) Task 3505	С	FBB	\$6,419.60						0				
29		Approved by Board of Directors Approved on June 22, 2015				\$225,971.77	\$3,147,152.63	\$3,373,124,40	2.06%	\$166,839,064.40			(1,278	10/28/2016
		Foul Air Pipe Supports in the Solids Handling Building Basement (CR-106) PR 21146 (4286) Task 3520	С	FBB	\$119,937.87						0				
	29.2	Secondary Circuit Breaker for Transformer T-14 (CR-185) PR 21146 (4286)) Task 3510	A	IRWD	\$106,033.90						0				

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C - Design Oversight
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E - Contractor Convenience/Initiation
F - Contractor Requested Inspection Overtime

						Contract An	nount				Contr	act Days		Origina Completion Date:
							Original Contra	ct Amount:	\$163,465,940.00		Orig	inal Days:	1,278	10/28/20
ange Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders		Revised Total Contract Days	Revise Complete Date
	Approved by Board of Directors Approved on July 27, 2015				(\$47,976.59)	\$3,373,124.40	\$3,325,147.81	2.03%	\$166,791,087.81	0	0	0	1,278	10/28/20
30.	.1 Credit for Changing Storm Drain line from Ductile Iron to PVC (CR-042) PR 21146 (4286) Task 3520	A	IRWD	(\$1,890.92)						0				
30.	1.2 Installation of Additional Digester Anchorage (CR-051B) PR21146 (4286) Task 3505	В	FBB	\$118,335.54						0				
30.	.3 Huber Screens I/O Modifications per RFI-0391 and RFI-0525A (CR-068) PR 21146 (4286) Task 3510	A	IRWD	\$12,579.20						0				
	.4 Credit for FBB's Portion of Partnering (CR-090) PR 21146 (4286) Task Deletion of Waterstops at Methane Digester Complex (CR-102) PR 21146 .5 (4286) Task 3505	E A	FBB IRWD	(\$81,948.33) (\$2,505.79)						0				
	Deletion of Bid Item No. 18.4 - Computers and Networking Hardware for the 6.6 (Control System (CR-138) PR 21146 (4286) Task 3510	A	IRWD	(\$200,000.00)						0				
30.	7 Electrical and Gas Modifications (CR-146) PR 21146 (4286) Task 3510	С	IRWD	\$363,978.41						0	l			
30.	2.8 Credit for Changing Heat Dryer Wet Material Mixer from A24 Steel to A36 Steel (CR-157) PR 21146 (4286) Task 3520	E	FBB	(\$2,392.66)						0				
30.	9 Credit for Travel Cost of On-Site Inspection for Acid Phase Digester (CR-175) PR 21146 (4286) Task 3520	В	IRWD	(\$683.39)						0				
30.	.1 Heat Dryer I/O Modifications per RFI-0626 (CR-179) PR 21146 (4286) Task 3510	A	IRWD	\$11,191.41						0				
30.1	11 Decant Trough I/O Modifications per RFI-0979 (CR-202) PR 21146 (4286) Task 3510	A	IRWD	\$9,960.55						0				
30.1	12 Deletion of Interior Coating of Methane Digesters (CR-188) PR 21146 (4286) Task 3520	A	IRWD	(\$398,571.00)						0				
30.1	13 Piping Modifications and Addition of Carbon Canisters (CR-218) PR 21146 (4286) Task 3520	A	IRWD	\$88,076.01						0				
30.1	14 Pickling and Passivation of Sludge Mixers (CR-248) PR 21146 (4286) Task 3520	С	IRWD	\$73,997.23										
30.1	15 IRWD Costs Associated to Repairing the Pile and Installing Couplers (CR-139) PR 21146 (4286) Task 3505	Е	FBB	(\$38,102.85)						0				

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Contractor: Design Engineer: Black & Veatch

Filanc/Balfour-Beatty

							Contract An						ract Days		Original Completion Date:
								Original Contra		\$163,465,940.00		Ori	ginal Days:		10/28/2016
Change Or	rder	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders		Revised Total Contract Days	Revised Completion Date
31	1	Approved by Exe. Dir. Of Eng, & Water Quality Approved on July 28, 2015				\$74,999.74	\$3,325,147.81	\$3,400,147.55	2.08%	\$166,866,087.55	0	0	0	1,278	10/28/2016
		Provide Circuit and Breaker for Standby Generator in the Microturbine Area (CR-170) PR 21146 (4286) Task 3510	С	FBB	\$4,296.86						U				
		Additional Pipe Support for 14-inch Air Line at the Centrate Facility (CR-226) PR 21146 (4286) Task 3520	С	FBB	\$893.78						0				
	31.3	Addition of E-stops (CR-128) PR 21146 (4286) Task 3510	A	FBB	\$57,916.71						0				
		Structural Support of Jib Crane at Dewatering Feed Pump Station Stairwell (CR- 243) PR 21146 (4286) Task 3520	С	FBB	\$11,892.39						0				
32		Approved by Exe. Dir. Of Eng, & Water Quality Approved on August 31, 2015				\$74,682.96	\$3,400,147.55	\$3,474,830.51	2,13%	\$166,940,770.51	0	0	0	1,278	10/28/2016
		Additional Conduits and Circuits for Fire Alarm in the Solids Handling Building	A	IRWD	\$21,637.57						0				
	32.2	Additional Davit Bases at Centrate Treatment Facility (CR-111) PR 21146 (4286) Task 3520	A	IRWD	\$1,809.77						0				
		Additional Fire Alarm Panel in Digester Control Building (CR-169) PR 21146 (4286) Task 3510	A	IRWD	\$25,153,79						0				
		Modifications to FOG Sump Pumps Controls (CR-177) PR 21146 (4286) Task 3510	A	IRWD	\$5,690.83						0				
		Additional Truck Load-out Conveyor Input and Output (CR-201) PR 21146 (4286) Task 3510	A	IRWD	\$2,220.12						0				
		Additional Spare Conduits in the Microturbine Area (CR-229) PR 21146 (4286) Task 3510	A	FBB	\$14,602.41						0				
		Conduits for Electrical Disconnect Switch for Roll-Up Doors of the Digester Control Building (CR-230) PR 21146 (4286) Task 3510	A	IRWD	\$3,568.47						0				
33		Approved by Executive Director of Engineering & Water Quality Approved on September 30, 2015				\$58,247.75	\$3,474,830.51	\$3,533,078.26	2.16%	\$166,999,018.26	.0				1/0/190
	33.1	Realignment of 8-inch Reclaimed Water Line at Gate 2 (CR-225) PR 21146 (4286) Task 3520	В	FBB	\$24,017.48						0				
	33.2	Additional Conduits and Wires for Lighting Circuits to Minimize Voltage Drop (CR-228) PR 21146 (4286) Task 3510	С	IRWD	\$32,399.41						0				
	33.3	Cable and Conduit Changes at Solids Handling Building and Dewatering Feed Pump Station (CR-231) PR 21146 (4286) Task 3510	С	IRWD	\$1,830.86						0				

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Contractor:

Filanc/Balfour-Beatty Design Engineer: Black & Veatch

							Contract An						act Days		Original Completion Date:
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34	34.1	Approved by Board of Directors Approved on October 26, 2015 Credit for Third Submittal Review Through 05/31/2015 (CR-088) PR 21146 (4286) Task 1065	В	IRWD	(\$39,502.50)	\$164,775.28	\$3,533,078.26	\$3,697,853.54	2,26%	\$167,163,793.54	0	0	0	1,278	10/28/2016
	34.2	Credit for Overtime Inspection Hours Through 05/31/2015 (CR-089) PR 21146 (4286) Task 3520	F	FBB	(\$80,850.00)						0				
	rin.	Credit for Special Inspections for Structural Anchors and Geotechnical Investigation (CR-295) PR 21146 (4286) Task 1065	A	IRWD	(\$27,500.00)						0				
	34.4	Change in Knife Gate Valve Manufacturer (CR-187) PR 21146 (4286) Task 3520	E	FBB	\$275,954.90						0				
		Credit for Changes in Low Voltage SWGR-14 Circuit Breaker (CR-163) PR 21146 (4286) Task 3510	A	IRWD	(\$1,978.00)						0				
	34.6	Change to Addressable Smoke Detectors (CR-220) PR 21146 (4286) Task 3510	В	IRWD	\$38,650.88						0				
35		Approved by General Manager Approved on November 25, 2015				\$97,980.57	\$3,697,853.54	\$3,795,834.11	2.32%	\$167,261,774.11	0	0	0	1,278	10/28/2016
		Change in Naming Convention for Storm Water Pump Station (Area 1500) SCADA Programming (CR-181) PR 21146 (4286) Task 3510	Е	FBB	\$9,027.03				ä		0				
	35.2	Valve Status Override Functionality (CR-182) PR 21146 (4286) Task 3510	E	FBB	\$38,999.08						0				
	35.3	Control Changes for Primary Sludge and Waste Activated Pump Stations (Area 1900) SCADA Programming (CR-184) PR 21146 (4286) Task 3510	A	IRWD	\$36,772.78						0				
1 1	35.4	Motor Protection Relay (CR-239) PR 21146 (4286) Task 3510	A	IRWD	\$13,181.68						0				
36	36.1	Approved by General Manager Approved on December 3, 2015 Light Weight Concrete for Underslab Conduits at Microturbine Area (CR-253) PR 21146 (4286) Task 3510	A	FBB	\$21,117.50	\$86,007.50	\$3,795,834.11	\$3,881,841.61	2.37%	\$167,347,781.61	0	C	0	1,278	10/28/2016
	36.2	Outstanding CB&I Items (CR-099A) PR 21146 (4286) Task 3520 – This change order includes: CR-098 (Guard Rail at Biogas Storage Tank); CR-099 (Tube Steel Supports); additional Off-Site Storage Costs; and credit for Use of SS 308 in Lieu of SS 316L Welds.	В	FBB	\$64,890.00						0				

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							Contract Am	nount				Contr	act Days		Original Completion Date:
								Original Contra	ct Amount:	\$163,465,940.00		Orig	zinal Days:	1,278	10/28/2016
Change O	rder	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount		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	Date
37		Approved by Exe. Director of Engineering and Water Quality Approved on January 21, 2016				\$47,446.49	\$3,881,841.61	\$3,929,288.10	2.40%	\$167,395,228.10	0	0	0	1,278	10/28/2016
	37.1	Approved on Familiary 21, 2010 Additional Pressure Relief Valves in the Digester Control Building Slab (CR- 112) PR 21146 (4286) Task 3520	С	IRWD	\$1,065,72						0				
	37.2	Change Feeder Circuit Breaker Size in MCC-4102 (CR-165) PR 21146 (4286) Task 3510	С	IRWD	\$4,157,60						0				
	- 11	Change Feeder Circuit Breaker Size for the Primary Sludge Pump Variable Frequency Drive (CR-233) PR 21146 (4286) Task 3510	С	IRWD	\$2,430,59						0				
		SCADA Programming Changes Due to Change to Schweitzer Power Quality Additional Labeling of Parallel Conduits and Cables (CR-262) PR 21146 (4286)	A	FBB	\$16,814.00						0				
	37.5	Task 3510	A	IRWD	\$8,410,00										
		Change in Sludge Receiving Entrance Beacon Operation CR-263) PR 21146 (4286) Task 3510	A	IRWD	\$5,382.19						0				
		(4286) Task 3510 (4286) Task 3510	A	IRWD	\$5,911.61						0				
	37.8	Hot Tap 8-Inch ACP Potable Water Line (CR-311) PR 21146 (4286) Task 3520	A	FBB	\$3,274.78						0				

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Change Orde	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Total	Revised Total Contract Days	Revised Completion Date
38	Approved by General Manager Approved on February 29, 2016 8.1 Software Control Block Revision for Area 4300 – Dewatering (CR-211) PR	С	FBB	\$18,908.76	\$83,345.07	\$3,929,288.10	\$4,012,633.17	2.45%	\$167,478,573.17	0	0	0	1,278	10/28/2016
	4286 Task 3510	~	155	\$10,500770										1
3	8.2 Revised Master List of SCADA Templates (CR-247) PR 4286 Task 3510	C	FBB	\$47,274.54						0				
3	8.3 Additional Overflow Alarms at Sludge Holding Tanks (CR-280) PR 4286 Task 3510	A	IRWD	\$9,654.54						0				
3	Leak Detection at Sulfuric Acid Facility (CR-290) PR 21146 (4286) Task 3510	A	IRWD	\$5,499.97						0				
3	8.5 Insulation for Acid Phase Gas Piping (CR-218A) PR 21146 (4286) Task 3520	A	IRWD	\$2,007.26						0				
39	Approved by General Manager Approved on March 7, 2016 9.1 SCE Installation - Final Accounting of Work Items Between Negotiated Change	В	FBB	\$7,809.51	\$98,006.46	\$4,012,633,17	\$4,110,639.63	2.51%	\$167,576,579.63	0		0	1,278	10/28/201
3	Order and Actual Work (CR-146E) PR 4286 Task 3510 9.2 Installation of Southern California Gas (SCG) Boxes (CR-146F) PR 4286 Task 3510	A	FBB	\$3,479.81						0				
3	9.3 Schweitzer SEL-735 Power Monitors for Centrifuge Panels (CR-207) PR 4286 Task 3510	A	IRWD	\$34,274.40						0				
3	9.4 Hirschmann Ethernet Switches for Centrifuge Panels (CR-208) PR 4286 Task 3510	A	IRWD	\$9,569.15						0				
	9.5 Addition of Sample Pump Variable Frequency Drives for Thickening Centrifuges (CR-237) PR 4286 Task 3520	E	IRWD	\$24,496.55						0				
3	9.6 Upgrade of Exit Signs and Ceiling Lights in the Gas Room of the Digester Control Building to NEC Class 1 Division 1 (CR-313) PR 4286 Task 352	A	IRWD	\$18,377.04						0				
40	Approved by General Manager Approved on April 20, 2016				\$97,287.05	\$4,110,639.63	\$4,207,926.68	2.57%	\$167,673,866.68			0	1,278	10/28/201
	0.1 Brace Plates in Solids Handling Building (CR-069) PR 4286 Task 3505	С	FBB	\$40,216.76						0				
	0.2 Relocation of RIO-50 Panel (CR-186) PR 4286 Task 3510	В	FBB	\$4,818.64						0				
4	10.3 Addition of Two Doors at the bases of the stairways at Methane Digesters Nos. 1 and No. 2 (CR-232) PR 4286 Task 3505	С	FBB	\$52,251.65						0				

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Change Orde	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Order Days	Previous Change Orders		Revised Total Contract Days	Revised Completion Date
444444444444444444444444444444444444444	Approved By Board of Directors Approved on May 23, 2016 1.1.1 Additional SCE and SCG Modifications (CR-146A) PR 4286 Task 3510 1.2.2 Additional Potholing Due to SCE and SCG Realignment (CR-146B) PR 4286 Task 3510 1.3.3 Additional Cameras at the Unloading/Loading Area of the Solids Handling Facility (CR-164) PR 4286 Task 3505 Fire Sprinkler System Modifications – Mechanical (CR-174) PR 4286 Task 3520 1.1.5 Fiber Optic System Modifications (CR-172/CR-306/CR-314) PR 4286 Task 3510 1.1.7 T-15, T-16, and T-17 Secondary Breakers (CR-185A, CR-185B, and CR-185C) PR 4286 Task 3510 1.1.8 Cable and Conduit Changes at the Sludge Receiving Area of the Solids Handling Building (CR-203) PR 4286 Task 3510 1.1.9 Concrete Surface Treatment (CR-222) PR 4286 Task 3505 Heating Water Boiler Control Modifications (CR-246) PR 4286 Task 3510 SCADA Control Modifications for the Acid Phase Digesters, Methane Digesters, and Sludge Holding Tank (CR-252) PR 4286 Task 3510 1.1.1 Ambient Gas Analyzer Wiring Modification (CR-264) PR 4286 Task 3510 1.1.3 Disconnect Switches for Flow Valves in the Solids Handling Building CR-272)	B B A A A A A A B C	FBB FBB IRWD IRWD IRWD IRWD IRWD IRWD IRWD IRWD	\$51,238.69 \$36,706.57 \$61,731.96 \$154,592.08 \$13,730.06 \$178,879.46 \$254,941.66 \$14,338.94 \$68,714.34 \$71,379.00 \$50,540.23 \$19,734.51 \$25,550.26		\$4,207,926.68	\$5,311,577.24	3.25%	\$168,777,517.24	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.0	0	1,278	10/28/2016
4	PR 4286 Task 3510 1.14 Centrifuge Pedestal Modifications (CR-301) PR 4286 Task 3505 1.15 SCADA, Instrumentation, and Electrical Modifications (CR-287, CR-294, and CR-322) PR 4286 Task 3510	C A	IRWD IRWD	\$30,603.14 \$70,969.66						0				

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42	Approved By Board of Directors				(\$199,771.09)	\$5,311,577.24	\$5,111,806.15	3.13%	\$168,577,746.15	0	0	0	1,278	10/28/2016
	Approved on May 23, 2016	_		(240 440 00)										
	2.1 Value Engineering of Chemical Pump Systems (CR-054) PR 4286 Task 3520	E	FBB	(\$48,549.90)	1					0				
4	12.2 Change in Lightning Protection Installation for Egg-Shaped Digesters (CR- 121A) PR 4286 Task 3510	E	FBB	(\$97,141.74)						0				
4	12.3 Deletion of Seal Water Stations and Seal Water Piping (CR-214) PR 4286 Task 3520	A	IRWD	(\$10,557.28)						0				
4	12.4 Deletion of Low Pressure Switches for Centrate Pumps (CR-257) PR 4286 Task 3510	A	IRWD	(\$1,748.17)						0				
4	2.5 Centrifuge Seismic Restraint Design Costs (CR-345) PR 4286 Task 1065	A	IRWD	(\$24,064.00)						0	1			1
	12.6 Credit for Overtime Inspection Hours From 6/1/2015 to Through 12/31/2015 (CR-089B) PR 4286 Task 1065	F	FBB	(\$17,710.00)						0				
43	Approved by Exe. Director of Engineering and Water Quality Approved on May 31, 2016				\$74,731.69	\$5,111,806.15	\$5,186,537.84	3.17%	\$168,652,477.84	1 0	(0	1,278	10/28/201
4	3.1 Combustible Gas Detection System (CR-234) PR 21146 (4286) Task 3510	E	FBB	\$18,843.39						0				
4	13.2 Additional Wires and Cables Between MCC-4102 and PLC-4000 (CR-278) PR 21146 (4286) Task 3510	С	FBB	\$1,775.13						0				
4	SCADA Programming Modifications (CR-282) PR 21146 (4286) Task 3510	E	FBB	\$49,679.02										
	43.4 Change of Waste Gas Burner Feeder Circuit Breaker (CR-344) PR 21146 (4286) Task 3510	В	FBB	\$4,434.15						0				
44	Approved by Exc. Director of Engineering and Water Quality Approved on June 29, 2016				\$74,912.99	\$5,186,537.84	\$5,261,450.83	3.22%	\$168,727,390.83	3 0		0	1,278	10/28/201
	14.1 Electrical and Telephonic Modifications for Elevators for Solids Handling Building and Digester Control Building (CR-037A) PR 4286 Task 3510	С	FBB	\$38,882.06						0				
38	44.2 Odor Control Recirculation Pump Selector Switch SCADA Modifications (CR- 343) PR 4286 Task 3510	A	IRWD	\$9,294.71						0				
	44.3 SCADA Valve Matrix Tables Animation Clarification for Milestone 1 (CR-353) PR 4286 Task 3510	A	IRWD	\$9,195.86						0				
	14.4 PLC Status Object Update (CR-234) PR 4286 Task 3510	В	FBB	\$4,783.14						0				1
	44.5 Elevator Safety Beam in the Digester Control Building (CR-302) PR 4286 Task 3505	С	FBB	\$3,830.95						0				
	44.6 Masonry Changes to the North Retaining Wall (CR-365) PR 4286 Task 3505	В	IRWD	\$8,926.27						0				

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				9			Contract Arr						act Days		Origina Completi Date:
	-							Original Contra		\$163,465,940.00		Orig	inal Days:	1,278	10/28/20
Change C	rder	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completi Date
5		Approved by Board of Directors Approved on July 25, 2016/December 20, 2016				\$9,250,000.00	\$5,261,450.83	\$14,511,450.83	8.88%	\$177,977,390.83	368	0	368	1,646	10/31/20
	45.1	Recovery Plan PR 4286 Task 3510	В	FBB	\$9,250,000.00						368				
5		Approved by General Manager				\$94,696.76	\$14,511,450.83	\$14,606,147.59	8.94%	\$178,072,087.59	0	368	368	1,646	10/31/20
		Approved on January 27, 2017	II												
		Additional Masonry Anchor in the Solids Handling Building (CR-200) PR 4286	С	IRWD	\$1,457.22						0				
	1.00	Additional Auto Dialer (CR-234A) PR 4286 Task 3510	A	IRWD	\$6,081.90						0				
		Grating and Handrail Modifications at Bulk Polymer Storage Platform (CR-300) PR 4286 Task 3505	A	IRWD	\$5,568.83						0				
	46.4	SCADA IP Address Update (CR-309) PR 4286 Task 3510	A	IRWD	\$1,227.96						0				
		Masonry Modifications at Solids Handling Building Stairwell (CR-324) PR 4286 Task 3505	С	FBB	\$5,939.45						0				
		Change in Valve Operator at the Centrate Treatment Facility (CR-329) PR 4286 Task 3520	A	IRWD	\$4,824.29						0				
	46.7	Boot Wash Landing Addition (CR-349) PR 4286 Task 3505	С	FBB	\$1,834.60						0				
	46.8	Updating Valve Analog SCADA Template (CR-354) PR 4286 Task 3510	A	IRWD	\$692.72						0				
	46.9	Additional Light Fixtures and Lamps (CR-355A) PR 4286 Task 3510	A	IRWD	\$8,508.46						ا ا				
		Addition of Rebate Angle in the FOG Unloading Sump Area (CR-363) PR 4286 Task 3505	A	IRWD	\$763.62						0				
	46.11	MCC-4103 Hot Water Circulation Pump Breakers Change (CR-366) PR 4286 Task 3510	В	IRWD	\$2,316.03						0				
		MCC-4100/4101 Cake Transfer Pump Breakers Change (CR-370) PR 4286 Task 3510	В	IRWD	\$23,720.61						0				
	46.13	MCC-4102 Breaker Change (CR-374) PR 4286 Task 3510	В	IRWD	\$2,316.03						0				
		SCADA Programming Modifications During Benchtest No.1 for Areas 1900 and 2000 (CR-376) PR 4286 Task 3510	A	IRWD	\$24,092.32						0				
		Additional Light Fixture Above Door in Digester Control Building Gas Room (CR-399) PR 4286 Task 3510	A	IRWD	\$1,478.19						0				
		Change in Size of Disconnect Switches for Digested Sludge Mixers (CR-408) PR 4286 Task 3510	В	FBB	\$1,290.10						0				
		Additional Thickening Feed Grinder Control Panel Circuits (CR-438) PR 4286 Task 3510	В	IRWD	\$1,286.63						0				
	46.18	Thickness and Glazing Change for Windows (CR-438) PR 4286 Task 3510	С	IRWD	\$1,297.80						0				
,		Approved by General Manager			_	\$96,414.36	\$14,606,147.59	\$14,702,561.95	8.99%	\$178,168,501.95	0	368	368	1,646	10/31/20

						Contract Am	nount			Contr	act Days		Original Completio Date:
							Original Contra	\$163,465,940.00		Orig	inal Days:		10/28/201
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	Revised Contract Amount		Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completic Date
47.1	Relocation of Neutralization Tank Drainage Piping PR 4286 Task 3520	В	FBB	\$2,312.08					0				
47.2	Modifications to Digester Control Building Door and Piping Due to Heating Water Expansion Tank Pad Adjustment (CR-221) PR 4286 Task 3505	С	FBB	\$5,500.74					0				
47.3	PLC-3100 Changes (CR-284) PR 4286 Task 3510	С	FBB	\$1,070.38					0				
47.4	Additional Angle Support to Acid Phase Digester Bridges (CR-298) PR 4286 Task 3505	С	FBB	\$4,986.21					0				
47.5	Additional Potable Water Gate Valves (CR-332) PR 4286 Task 3520	A	IRWD	\$3,892.44					0				
	T-4 Kirk Key Interlock Installation (CR-335) PR 4286 Task 3510	В	IRWD	\$6,924.69					0				
	Solids Handling Building Dumpster Room Channel Frames Modifications (CR-338) PR 4286 Task 3505	С	FBB	\$5,093.87					0				
47.8	PCS Server Configuration Clarification (CR-352) PR 4286 Task 3510	A	IRWD	\$6,824.35					0				
	Additional Anchorage Support for Ledgers of the Digester Control Building Roof (CR-361) PR 4286 Task 3505	С	FBB	\$13,794.95					0				
47.10	Change of MCC-4103 Hot Water Circulation Pump Breakers (CR-366B) PR 4286 Task 3510	A	IRWD	\$1,336.13					0				
47.11	Centrate Treatment Facility Pull Boxes Duct Bank Settlement (CR-383) PR 4286 Task 3510	В	FBB	\$3,300.13					0				
47.12	Modifications to the MCC-4100/4101/4102/4103 (CR-405) PR 4286 Task 3510	В	FBB	\$7,418.52					0				
47.13	Cake Storage Hopper Modifications (CR-421) PR 4286 Task 3510	С	FBB	\$2,250.67				li .	0				
47.14	Removing Installed Lighting in the Solids Handling Building (CR-427) PR 4286 Task 3510	A	IRWD	\$8,947.37					0				
47.15	Electrical Changes for Generator MPC (CR-430) PR 4286 Task 3510	A	IRWD	\$10,950.14					0				
47.16	Electrical Modifications to MCC-4100 and 4103 (CR-431) PR 4286 Task 3510	A	FBB	\$4,500.00					0				
47.17	Occupancy Sensors in the Solids Handling Building Shower Areas (CR-444) PR 4286 Task 3510	С	FBB	\$1,601.36					0				
47.18	Digester Gas Pre-Treatment In-Slab Conduit Size Change (CR-454) PR 4286 Task 3510	С	FBB	\$5,710.33					0				

A - District Convenience/Initiation - Project Related
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							Contract An						ract Days		Original Completion Date:
								Original Contra		\$163,465,940.00		Orig	inal Days:		10/28/2016
Change	e Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders		Revised Total Contract Days	Revised Completion Date
48		Approved by Board of Directors				\$728,237,74	\$14,702,561.95	\$15,430,799.69	9.44%	\$178,896,739.69	0	368	368	1,646	10/31/2017
		Approved on March 13, 2017													
	48.1	Structural Modifications of the Elevator Shafts (CR-037) PR 4286 Task 3505200) PR 4286 Task 3505	В	FBB	\$58,705.90						0				
	48.2	SCADA Programming Update of Polymer Feed and Storage System (CR-148A) PR 4286 Task 3510	A	FBB	\$23,685.14						0				
	48.3	Stairs and Platform at SHB Load-Out Area (CR-149) PR 4286 Task 3505	С	FBB	\$39,622,65						0				
	48.4	Additional Polymer Dilution Flow Meters and Associated Conduits and Cables (CR-159B) PR 4286 Task 3510	A	IRWD	\$38,978.70						0				
	48.5	Miscellaneous Andritz Items (CR-205) PR 4286 Task 3520	A	IRWD	\$41,246.71						0	1			1
- 1	48.6	RIO-4001 Changes (CR-286) PR 4286 Task 3510	A	IRWD	\$27,889.74						0				
	48.7	RIO-3102 Changes (CR-310) PR 4286 Task 3510	A	IRWD	\$18,280.62						0				
	48.8	Mini Power Center - Additional Outlet and Data Locations in the SHB (CR-419) PR 4286 Task 3510	A	IRWD	\$13,261.60						0				
	48.9	New Lighting in the SHB First Floor Area (CR-427A) PR 4286 Task 3510	A	IRWD	\$102,503.46					-	0				
	48.10	Additional Conduits and Cables for Thermocouples for Several Pumps (CR-424, CR-424A through CR-424F) PR 4286 Task 3510	В	FBB	\$54,982.68						0				
	48.11	Additional Wall Panel Framework at the SHB (CR-445) PR 4286 Task 3505	С	FBB	\$128,000.00						0				
		Changes in Uninterruptible Power Supply Units (CR-162/CR-162A) PR 4286 Task 3510	A	IRWD	\$128,052.94						0				
	48,13	Addition of Circuit Breaker at Transformer T-14 (CR-474) PR 4286 Task 3510	A	IRWD	\$53,027,60										

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							Contract An			D1 62 465 D40 00			act Days	1 220	Original Completion Date:
			_	1		-		Original Contra	% of	\$163,465,940.00		Ong	inal Days:	1,278 Revised	10/28/2016
Chan	nge Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Total Contract Days	Revised Completion Date
49		Approved by Board of Directors				(\$47,099.20)	\$15,430,799.69	\$15,383,700,49	9.41%	\$178,849,640.49	0	368	368	1,646	10/31/2017
		Approved on March 13, 2017													
	49.1	Related Mechanical Piping Modifications Due to Change in Chemical Pumps in CCO No. 42 (CR-054A) PR 4286 Task 3520	Е	FBB	(\$23,897.73)						0				
	49.2	Changing the Solids Handling Building Roofing from EPDM to PVC (CR-255) PR 4286 Task 3505	E	FBB	(\$9,000.00)						0				
	49.3	Net Reduction of Scope of Work in CR-353 – SCADA Valve Matrix Tables Animation Clarifications (CR-353B/353C) PR 4286 Task 3510	A	IRWD	(\$4,429.09)						0				
	49.4	Change in Starters for MCC-4100/4101 Cake Transfer Pump Breakers (CR-370A) PR 4286 Task 3510	A	IRWD	(\$4,047.43)						0				
	49.5	Deletion of Insulation for the Solids Handling Building Foundation (CR-393) PR 4286 Task 3505	A	IRWD	(\$5,724.95)						0				
50		Approved by Executive Director of Engineering & Water Quality				\$72,150.89	\$15,383,700.49	\$15,455,851.38	9.46%	\$178,921,791.38	0	368	368	1,646	10/31/2017
		Approved on March 31, 2017													
	50.1	Electrical Modifications to FOG Local Control Panel 70-LCP-0710 (CR-304) PR 4286 Task 5.30	A	IRWD	\$6,614.77						0				
	50.2	Condensate Modifications at Digester Gas Pre-Treatment Area (CR-312) PR 4286 Task 5.31	С	FBB	\$9,826.09						0				
	50.3	Installation of Lindapters Instead of Eye Bolts (CR-413) PR 4286 Task 5.29	A	FBB	\$13,346.01					III	0				
	50.4	T-5 Connection to Biosolids Switch-14 (CR-480) PR 4286 Task 5.30	A	IRWD	\$35,170.26						0	1			
	50.5	Polymer Feeder Blender Skids Flow Element Grounding Conductor (CR-482) PR 4286 Task 5.30	С	IRWD	\$7,193.76						0				
51		Approved by Executive Director of Engineering & Water Quality				(\$126,390.00)	\$15,455,851.38	\$15,329,461.38	9.38%	\$178,795,401.38	0	368	368	1,646	10/31/2017
		Approved on March 31, 2017													
	51.1	Credit for Overtime Inspection Hours From 1/1/2016 to Through 12/31/2016 (CR-089C) PR 4286 Task 4.0	F	IRWD	(\$97,570.00)						0				
	51.2	Credit for Overtime Inspection Hours From 1/1/2017 to Through 03/31/2017 (CR-089D) PR 4286 Task 4.0	Е	IRWD	(\$28,820.00)						0				

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

							Contract Arr	nount				Contr	ract Days		Original Completion Date:
								Original Contra	ct Amount:	\$163,465,940.00		Orig	ginal Days:	1,278	10/28/201
Chang	e Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders		Revised Total Contract Days	Revised Completion Date
52		Approved by General Manager				\$98,342.16	\$15,329,461.38	\$15,427,803.54	9.44%	\$178,893,743.54	0	368	368	1,646	10/31/201
- 1		Approved on April 28, 2017									l .				
	52.1	Removal of Unsuitable Alluvium (CR-146H) PR 4286 Task 5.29	В	FBB	\$3,564.32						0				1
		Polymer Dilution Water Flowmeters (CR-159A) PR 4286 Task 5.31	A	IRWD	\$14,090.39						0				
		Aluminum Handrail and Guardrail Modifications at Liquid Chemical and Polymer Areas (CR-171) PR 4286 Task 5.30	A	IRWD	\$13,765.20						0				
	52,4	Modifications Due to Solids Handling Building Electrical Room Equipment Clearance Issues (CR-196) PR 4286 Task 5.30	С	FBB	\$9,382.01										
	52.5	Data and Telephone Outlets in Solids Handling Building (CR-261) PR 4286	A	IRWD	\$27,620.21						0				
	52.6	Task 5.30 HVAC Duct Modifications in Dewatering Feed Pump Station (CR-268) PR 4286 Task 5.31	С	FBB	\$16,023.50						0				
- 1	52.7	Coating of 8 Roll-up doors (CR-358) PR 4286 Task 5.29	l A	IRWD	\$5,710.32						10				
- 1			1	1							lo l				
		Upsizing Wire Size of Dewatering Feed Pump Station Main Breaker Light Panel LP-3501 (CR-390) PR 4286 Task 5.30		IRWD	\$1,449.75						0				
	52.9	Modifications to the Roofs of the Solids Handling Building and Digester Control Building (CR-528) PR 4286 Task 5.29	A	IRWD	\$6,736,46						0				
53		Exe. Director of Water Quality and Engineering				\$42,281.96	\$15,427,803.54	\$15,470,085.50	9,46%	\$178,936,025.50	0	368	368	1,646	10/31/20
		Approved on June 5, 2017													
	53.1	Modifications to Regenerative Thermal Oxidizer (RTO) Drainage and Utility Water Piping (CR-267) PR 4286 Task 5.31	С	IRWD	\$33,814.80						0				
- 1	53.2	Modifications to Liquid Chemical Feed Control Panel Wiring (CR-396) per RFI- 1602 PR 4286 Task 5.30	С	FBB	\$8,467.16						0				
54		Approved by General Manager				\$44,210.51	\$15,470,085.50	\$15,514,296.01	9.49%	\$178,980,236.01	. (368	368	1,646	10/31/20
	54.1	Approved on June 19, 2017 Modifications to Thickening and Dewtering Platforms (CR-195) PR 4286 Task 5.29	С	FBB	\$44,210.51						0				
55		Approved by General Manager				\$94,352.43	\$15,514,296.01	\$15,608,648.44	9.55%	\$179,074,588.44		368	368	1,646	10/31/20
		Approved on July 3, 2017													
	55.1	Additional Pipe Supports of 54-Inch Fiberglass Reinforced Air Duct (CR-106A) PR 4286 Task 5.29	С	FBB	\$14,211.18						0				
	55.2	Natural Gas Step Down Manifolds and Gas Transition Piping (CR-146G) PR	В	IRWD	\$20,489.32						0				
		Modifications to the West End Stair Landing of the Solids Handling Building (CR-315) PR 4286 Task 5.29	В	IRWD	\$5,622.11						0				
	55.4	Regenerative Thermal Oxidizer (RTO) Pad Modifications (CR-400) PR 4286 Task 5.29	С	FBB	\$8,471.16						0				
- Distric	t Convegges	Addition of This Circuit at the Dryer Facility (CR-485) PR 4286 Task 5.30	A	IRWD	\$36,874.10						0		· ·		

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B. Differing Site Conditions
C. Design Oversight
D. District Convenience/Initiation - Non-Project Related
E. Contractor Convenience/Initiation
F. Contractor Requested Inspection Overtime

							Contract An	nount				Contr	act Days		Original Completion Date:
								Original Contra	ct Amount:	\$163,465,940.00		Orig	ginal Days:	1,278	10/28/201
Chang	e Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders		Revised Total Contract Days	Revised Completion Date
	55.6	Change in Size to 2 Check Valves in the Digester Control Building (CR-514) PR 4286 Task 5.31	С	FBB	\$8,684.56						0				
56		Approved by Board				\$201,744.33	\$15,608,648.44	\$15,810,392.77	9.67%	\$179,276,332.77	0	368	368	1,646	10/31/2017
		Approved on July 24, 2017													
		Addition Of Stairs and Platform to RTO (CR-266) PR 4286 Task 5.29	A	IRWD	\$101,744.33						0				
	56.2	Microturbine CLC (ESC Capstone) per RFI 1141 (CR-277) PR 4286 Task 5.30	В	FBB	\$100,000.00						0				
57		Approved by General Manager				\$98,886.90	\$15,810,392.77	\$15,909,279.67	9.73%	\$179,375,219,67	0	368	368	1,646	10/31/2017
		Approval on August 5, 2017													
	57.1		С	IRWD	\$2,522.47										1
		Additional Support at Digester Control Building (CR-342) PR 04286 Task 5.29									0				
		Pipe and Duct Hanger Modifications (CR-362) PR 04286 Task 5.29 Increase Wire Size of Main Breaker PP-3501 (CR-418) PR 04286 Task 5.30	C	IRWD FBB	\$4,083.12 \$696.66						0				
		Roof Vent at DCB Elevator/Stair Tower (CR-437) PR 04286 Task 5.29	B	IRWD	\$8,563.72						0		li .		
		T-14 Fixed Type Manual Operator per Submittal 16443-0016A (CR-540) PR	C	IRWD	\$1,945.62						1	1			
	57.5	04286 Task 5.31			4.,,						0				
	57.6	Area Classification at Methane Digesters to meet NFPA Table 6.2(a) - Plug Valves Limit Switches (CR-557) PR 04286 Task 5.30	С	FBB	\$64,195.15						0				
	57.7	Area Classification at Methane Digesters to meet NFPA Table 6.2(a) - Sump Pump Cable Retrofit PR 04286 Task 5.30	С	FBB	\$16,880.16						0				

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							Contract Arr			61/2 4/5 040 00			act Days	1,278	Original Completion Date: 10/28/201
Change	Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Original Contra Cumulative Total of Change Orders	% of Original	Revised Contract Amount	Change Order Days		Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
58		Approved by Board of Directors				\$182,938.94	\$15,909,279.67	\$16,092,218,61	9.84%	\$179,558,158.61	0	368	368	1,646	10/31/20
		Approval on August 28, 2017													1
	58.1	Concrete Cap over Shallow Pipe Crossings (CR-348) PR 04286 Task 5.31	В	FBB	\$7,923.00						0				
		Additional Conduit and Wiring for Sludge Screen Moisture Sensors (CR-381) PR 04286 Task 5.30	С	FBB	\$8,355.32						0				
	58.3	SCADA Programming Modifications (CR-433/476/546/547/551) PR 04286 Task 5.30	A	IRWD	\$15,758.38						0				
	58.4	Polymer Storage Power Panels Wire and Breaker Modifications (CR-456) PR 04286 Task 5.30	С	FBB	\$24,238.65						0				
	58.5	Odor Control Starter Modifications (CR-466) PR 04286 Task 5,30	В	FBB	\$41,436.09						0				
	58.6	Odor Control Fan Remote Temperature Device Revisions (CR-522) PR 04286 Task 5.30	A	IRWD	\$52,484.50						0				
		Re-location of Digester Control Building Gas Room Local Control Panels (CR-534) PR 04286 Task 5.30	A	FBB	\$32,743.00						0				
59		Approved by Exe. Director of Water Quality and Engineering				\$98,988.68	\$16,092,218.61	\$16,191,207.29	9.90%	\$179,657,147.29	0	368	368	1,646	10/31/20
		Approval on September 6, 2017													1
	59.1	Modifications to Building 101 (CR-212) PR 04286 Task 5.30	E	FBB	\$26,500.00										
	59.2	Change in Conduit Size in Area 20 (CR-292) PR 04286 Task 5.10	С	FBB	\$1,946.70						0				
	59,3	Centrifuge Discharge Cake Conveyors Schematic Modifications (CR-422) PR 04286 Task 5.10	С	FBB	\$6,410.04						0				
	59.4	Power Monitor Programming Modifications (CR-539) PR 04286 Task 5.10	A	IRWD	\$2,595,60						0				
		SCADA Programming Modifications (CR-547A) PR 04286 Task 5.10	A	IRWD	\$1,574.86						0				1
		Change in Area Classification at Methane Digesters to meet NFPA Standards - MOVs (CR-557B) PR 04286 Task 5.10	С	FBB	\$54,736.73						0				
	59.7	FOG Heating Disconnect Switch Relocation (CR-559) PR 04286 Task 5.10	С	FBB	\$5,224.75						0				
60		Approved by Exe. Director of Water Quality and Engineering				(\$34,540.00)	\$16,191,207.29	\$16,156,667.29	9.88%	\$179,622,607.29	0	368	368	1,646	10/31/20
	60.1	Approval on September 5, 2017 Credit for Overtime Inspection Hours From 4/1/2017 Through 6/30/2017 (CR-089E) PR 04286 Task 4.0	F	FBB	(\$34,540.00)						0				

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Contractor: Design Engineer: Black & Veatch

Filanc/Balfour-Beatty

							Contract Arr			61 (2) 4(5 040 00			act Days	1 270	Original Completion Date:
Chang	ge Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Original Contra Cumulative Total of Change Orders	% of Original Contract Amount	\$163,465,940.00 Revised Contract Amount	Change Order Days	Previous Change	rinal Days: Cum. Total C.O. days	1,278 Revised Total Contract Days	Revised Completion Date
61		Approved by Exe. Director of Water Quality and Engineering Approved on September 6, 2017 Credit for Bulk Polymer Storage Changes per RFJ-0863 and Submittal 15140- 013B (CR-168) PR 04286 Task 5.16	Е	FBB	(\$1,752.39)	(\$1,752.39)	\$16,156,667.29	\$16,154,914.90	9.88%	\$179,620,854.90	0	368	368	1,646	10/31/2017
62		Approved by Board of Directors Approved on October 9, 2017				\$708,162.72	\$16,154,914.90	\$16,863,077.62	10.32%	\$180,329,017.62	0	368	368	1,646	10/31/201
		Fats, Oil, and Grease (FOG) Modifications (CR-223A) PR 04286 Task 5.30 Density Meter Conduit and Cabling Modifications (CR-326) PR 04286 Task 5.30	A A	IRWD IRWD	\$52,174.90 \$52,518.11			5			0				
		Fiber Optic Modifications (CR-356) PR 04286 Task 5.30 Sludge Screen Pneumatic Control Panel Conduit and Cabling (CR-380) PR 04286 Task 5.30	A C	IRWD IRWD	\$20,607.14 \$8,859.95						0				
	62.5	Additional Circuits for Control of the Thickening Centrifuges (CR-386) PR 04286 Task 5.30	С	FBB	\$376,674.08						0				
	62.6	Upsize of Power Panel PP-8001 Circuit Breaker (CR-414) PR 04286 Task 5.30	A	IRWD	\$50,135.26						0				
	62.7	Electrical Power Feeders to Electric Water Heater (CR-426) PR 04286 Task 5.30	В	FBB	\$16,551.27						0				
		Chemical Sump Pump Control Panel Space Heater Wiring Modifications (CR-461) PR 04286 Task 5.30	A	IRWD	\$12,822.26						0				
- 1	62.9	Relocate Electrical Feeders to Generator Bus (CR-462) PR 04286 Task 5.30	A	IRWD	\$22,785.74						0				
	62.10	Electrical and Instrumentation Related Components for the Installation of Thin Client at Dryer Facility (CR-485A) PR 04286 Task 5.30	A	IRWD	\$49,908.43						0				
		Polymer Room Eye Wash Station Flow Switches (CR-535) PR 04286 Task 5.30	A	IRWD	\$24,567,89						0				
		Chemical Storage and Feed Modifications (CR-563) PR 04286 Task 5.30	A	IRWD	\$13,055.18						0				
	62.13	PLC Redundancy Hot Standby Status Register (CR-568) PR 04286 Task 5.30	A	IRWD	\$7,502,51						0				

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							Contract Arr	ount				Contr	act Days		Original Completion Date:
								Original Contra		\$163,465,940.00		Orig	zinal Days:	1,278	10/28/201
Chang	e Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders		Revised Total Contract Days	Revised Completio Date
63		Approved by General Manager				\$91,766.09	\$16,863,077.62	\$16,954,843.71	10,37%	\$180,420,783.71	0	368	368	1,646	10/31/201
		Approved on October 2, 2017													
	63.1	Electrical Modifications to RIO-2001 (CR-269) PR 04286 Task 5.30	С	IRWD	\$30,563.48						0				
		Modifications to RIO-4002 (CR-285) PR 04286 Task 5.30	С	FBB	\$14,563.39						0				
	63.3	Cap for 12-Inch Storm Drain (CR-351) PR 04286 Task 5.16	В	FBB	\$2,394.54						0				
		Access Hatch for Regenerative Thermal Oxidizer Pipe Chase (CR-473) PR 04286 Task 5.31	С	FBB	\$3,958.91						0				
	63.5	Electrical Upgrades to RIO-4002 (CR-447) PR 04286 Task 5.30	A	FBB	\$40,285.77						0				
54		Approved by Board of Directors				\$231,100.22	\$16,954,843.71	\$17,185,943.93	10.51%	\$180,651,883.93	0	368	368	1,646	10/31/20
		Approved on October 23, 2017													
	64.1	Modifications to Centrate Treatment Facility Stairs (CR-379) PR 04286 Task 5.29	В	FBB	\$9,758.16						0				
	64.2	Modifications to Ductwork in Solids Handling Building (CR-401) PR 04286 Task 5.31	С	FBB	\$9,537.05						0				
1	64.3	Electrical Conduits and Wires for Additional Bridge Breakers for Cake Receiving Purnps (CR-416) PR 04286 Task 5.30	В	FBB	\$21,678.83						0				
	64.4	Handrail Modifications at the Methane Digesters (CR-472) PR 04286 Task 5.29	В	FBB	\$22,154.53						0				
1	64.5	Electrical and Instrumentation Related Components for the Installation of Thin Client at Dryer Facility (CR-485B) PR 04286 Task 5.30	A	IRWD	\$53,090.84						0				
	64.6	Electrical Modifications at the Motor Control Centers for the Acid Phase Sludge Heating Recirculation Pumps (CR-517) PR 04286 Task 5.30	A	IRWD	\$47,611.11						0				
		FOG Receiving Pumps Thermocouple and Thermostat Wiring (CR-525) PR 04286 Task 5.30	С	FBB	\$37,826.58						0				
	64.8	SCADA Programming Changes (CR-537/570/573/573A) PR 04286 Task 5.30	A	IRWD	\$23,694.13						0				
	64.9	Change of Limit Switches for Buried Service (CR-560) PR 04286 Task 5.30	С	FBB	\$5,748.99						0				

A - District Convenience/Initiation - Project Related
B - Differing Site Conditions
C - Design Oversight
D - District Convenience/Initiation - Non-Project Related
E - Contractor Convenience/Initiation
F - Contractor Requested Inspection Overtime

					Contract Amount Original Contract Amount: \$163,46								act Days		Original Completion Date:
								Original Contra		\$163,465,940.00		Orig	inal Days:	1,278	10/28/2016
Chan	ige Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
65		Approved by Board of Directors				\$149,591.14	\$17,185,943.93	\$17,335,535.07	10.60%	\$180,801,475.07	0	368	368	1,646	10/31/2017
	65.1	Approved on October 23, 2017 Additional Conduits and Wires for the Engine Generator, Switchgear-16, and Switchgear-16 Programmable Logic Controller (CR-204) PR 04286 Task 5,30	С	FBB	\$100,000.00						0				
	65.2	Modifications to Spirac Conveyor in the Solids Handling Building (CR-409) PR 04286 Task 5.31	В	FBB	\$13,641.00						0				
	65.3	Additional Metal Bridge Walkway Structural Support Angles (CR-420) PR 04286 Task 5.29	В	FBB	\$35,950.14						0				
66		Approved by General Manager				\$98,201.20	\$17,335,535.07	\$17,433,736.27	10.67%	\$180,899,676.27	0	368	368	1,646	10/31/2017
		Approved on November 30, 2017													
	66.1	SCADA Programming Modifications and Updates (CR-247A/CR-469/CR- 485C/CR-571/CR-575A/CR-579/CR-580/CR-585) PR 04286 Task 5,30	A	IRWD	\$61,734.78						0				
		Installation of Sump Pump Floats (CR-452) PR 04286 Task 5.31	A	IRWD	\$17,228.56						0				
	66.3	Electrical Work Associated with Air Handling/Heating Units, Recycle Bin Feed Conveyor, and Recycle Bucket Elevator in the Solids Handling Building (CR-457/CR-529) PR 04286 Task 5.30	В	IRWD	\$11,003.85						0				
	66.4	Additional Wires and Conduits for FOG Receiving Valves (CR-565) PR 04286 Task 5.30	В	FBB	\$6,368.21						0				
	66.5	Additional Door Cover Plates for MCC-4100 and MCC-4101	В	IRWD	\$1,865.80						0				
67		Approved by Exe. Dir of Engineering and Water Quality				(\$53,626.83)	\$17,433,736.27	\$17,380,109.44	10.63%	\$180,846,049.44	0	368	368	1,646	10/31/2017
		Approved on November 30, 2017													
		Credit for Overtime Inspection Hours from 07/1/2017 to 09/30/2017 (CR-089F) PR 04286 Task 4.0	F	FBB	(\$19,140.00)						0				
	67.2	Credit for Additional Conduits and Wires for the Engine Generator, Switchgear- 16, and Switchgear-16 Programmable Logic Controller (CR-204A) PR 04286 Task 5.30	Е	FBB	(\$13,591.83)						0				
	67.3	Deletion of Pavement Prime Coat (CR-331D) PR 04286 Task 5.29	A	IRWD	(\$20,895.00))					0				

A - District Convenience/Initiation - Project Related
B - Differing Site Conditions
C - Design Oversight
D - District Convenience/Initiation - Non-Project Related
E - Contractor Convenience/Initiation
F - Contractor Requested Inspection Overtime

					Contract Amount Original Contract Amount: \$163,465,94					Contr	act Days		Original Completion Date:		
		&						Original Contra	ct Amount:	\$163,465,940.00		Orig	inal Days:	1,278	10/28/2016
Cha	nge Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
68		Approved by Board of Directors				\$569,553.19	\$17,380,109.44	\$17,949,662.63	10.98%	\$181,415,602,63	0	368	368	1,646	10/31/2017
		Approved on December 11, 2017													1
	68.1	Fats, Oil, and Grease (FOG) Modifications (CR-223) PR 04286 Task 5.30	A	IRWD	\$83,648.47						0				
	68.2	Additional Electrical Outlets and Circuits in the Solids Handling Building (CR- 453) PR 04286 Task 5.30	A	IRWD	\$44,054.83						0				
	68.3	Control Panel Modifications in the Methane Digester Complex (CR-545) PR 04286 Task 5.30	С	IRWD	\$55,414.03						0				
	68.4	Additional Electrical, Instrumentation, and Controls for the Heat Dryer System (CR-270 and CR-471A through CR-471G, CR-496, and CR-555) PR 04286 Task 5.30	В	FBB	\$386,435.86						0				
69		Approved by General Manager				\$90,846.69	\$17,949,662.63	\$18,040,509.32	11.04%	\$181,506,449.32	0	368	368	1,646	10/31/2017
		Approved on December 20, 2017													
	69.1	Power Supply Failure Alarms for Acid Gas Boosters (CR-477) PR 04286 Task	A	IRWD	\$10,965.90			1			0				
		Addition of Waste Gas Burner Instrument Air Compressor System (Electrical) (CR-484A) PR 04286 Task 5.30	С	IRWD	\$8,046.52						0				
	69.3	Circuit Breaker for MOC-2034 (CR-541) PR 04286 Task 5.30	В	IRWD	\$2,389.56						0				
		Change in Limit Switches Located in the Methane Digester Complex Due Electrical Classification Change (CR-557D) PR 04286 Task 5,30	С	IRWD	\$37,744.12						0				
	69.5	Change in Limit Switches Located in the Methane Digester Complex Due Electrical Classification Change (CR-582) PR 04286 Task 5.30	С	IRWD	\$16,228.03						0				
		SCADA Programming Changes - Totalizers (CR-590) PR 04286 Task 5.30 Control Panel Modifications in the Methane Digester Complex (CR-592) PR 04286 Task 5.30	A A	IRWD IRWD	\$7,830.90 \$7,641.66						0				

A - District Convenience/Initiation - Project Related
B - Differing Site Conditions
C - Design Oversight
D - District Convenience/Initiation - Non-Project Related
E - Contractor Convenience/Initiation
F - Contractor Requested Inspection Overtime

						Contract Am	nount				Contr	act Days		Original Completion Date:
							Original Contra	act Amount:	\$163,465,940.00		Orig	inal Days:	1,278	10/28/2016
Change Orde	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount		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 7	Approved by Exe. Dir of Engineering and Water Quality Approved on January 23, 2018 0.1 Addition of Limit Switches on Gas Dryer Heat Exchanger (CR-303) PR 04286 Task 5.30	A	IRWD	\$17,367.32	\$73,972.77	\$18,040,509.32	\$18,114,482.09	11.08%	\$181,580,422.09	0	368	368	1,646	10/31/2017
7	0.2 Change of Electrical Classification of Valve Limit Switches at Acid Phase Digester Complex (CR-415) PR 04286 Task 5.30	С	IRWD	\$24,018.04						0				
7	0.3 Power Source to the Solids Handling Building Bridge Cranes (CR-574) PR 04286 Task 5.30	С	IRWD	\$27,479.58						0				
	0.4 Investigation of Street Lights, South side of Biosolids Site (CR-613) PR 04286 Task 5.30	A	IRWD	\$1,204.20						0				
7	0.5 Additional Switches in the Solids Handling Building (CR-625) PR 04286 Task 5.30	A	IRWD	\$3,903.63						0				
71 7	Approved by Exe. Dir of Engineering and Water Quality Approved on January 31, 2018 1.1 Credit for Overtime Inspection Hours from 10/1/2017 to 12/31/2017 (CR-089G) PR 04286 Task 4.0	F	IRWD	(\$12,210.00)	(\$12,210.00)	\$18,114,482.09	\$18,102,272.09	11.07%	\$181,568,212.09	0	368	368	1,646	10/31/2017
72 7	Approved by General Manager Approved on January 25, 2018 2.1 Installation of Breakers for Power Panel PP-8001 (CR-414A) PR 04286 Task 5.30	A	IRWD	\$25,256.29	\$25,256.29	\$18,102,272.09	\$18,127,528.38	11.09%	\$181,593,468.38	0	368	368	1,646	10/31/2017
73	Approved by Board of Directors Approved on March 12, 2018 3.1 Additional Circuits for Control of the Dewatering Centrifuges (CR-386B) PR 04286 Task 5.30	В	FBB	\$150,755.29	\$150,755.29	\$18,127,528.38	\$18,278,283.67	11.18%	\$181,744,223.67	0	368	368	1,646	10/31/2017

A - District Couvenience/Initiation - Project Related
B - Differing Site Conditions
C - Design Oversight
D - District Couvenience/Initiation - Non-Project Related
E - Contractor Couvenience/Initiation
F - Contractor Requested Inspection Overtime

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

			Contract Amoun: Contract D					ract Days		Original Completion Date:				
							Original Contra	ct Amount:	\$163,465,940.00		Ori	inal Days:	1,278	10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
74	Approved by General Manager				\$99,467.47	\$18,278,283,67	\$18,377,751.14	11.24%	\$181,843,691.14	0	368	368	1,646	10/31/201
	Approved on February 22, 2018													
74.1	Access Platform to Heat Dryer Acid Scrubber (CR-485D) PR 04286 Task 5,30	A	IRWD	\$14,637.02						0				
74.2	Modifications to the FRP Ducting in the Solids Handling Building (CR-491) PR 04286 Task 5.31	A	IRWD	\$20,171.39						0				
74.3	Power to Air Compressors and Pre-Action Panels of the Fire Sprinkler System (CR-526) PR 04286 Task 5,30	В	IRWD	\$24,442.16						0				
74.4	Electrical and Instrumentation Revisions to the FOG System (CR-578) PR 04286 Task 5.30	A	IRWD	\$13,035.52						0				
74.5	Addition of Centrate Air Purge System (CR-581) PR 04286 Task 5.30	A	IRWD	\$17,777.95						0				
74.6	Addition of Flame Checks on Foam Separator Digested Sludge Line (CR-587)	A	IRWD	\$3,038.27						0				
	PR 04286 Task 5.3													
74.7	Modifications to 10-Ton Crane Stops (CR-589) PR 04286 Task 5.31	С	FBB	\$6,365.16						0				
75	Approved by General Manager				\$98,698.78	\$18,377,751.14	\$18,476,449.92	11.30%	\$181,942,389.92	0	368	368	1,646	10/31/201
	Approved on March 2, 2018										1			
75.1	Electrical Modifications to the Acid Phase Digester and Methane Phase Digester System (CR-252C) PR 04286 Task 5.30	A	IRWD	\$31,492.38						0				
	Modifications to the Odor Control Panels (CR-382) PR 04286 Task 5.30	A	IRWD	\$12,726.70						0	1			
	Additional Lock-Out Switch for the Bridge Breaker (CR-384A) PR 04286 Task 5,30	В	IRWD	\$14,276.72						0				
75.4	Additional On/Off Switch for Duct Fans (CR-384B) PR 04286 Task 5.30	A	IRWD	\$12,100.47						0	1			
75.5	Aeration Blower MCC Modifications (CR-481) PR 04286 Task 5.30	С	IRWD	\$14,441.86						0	1			
75.6	Addition of Level Switches and Solenoid Valves for Gas/Foam Separator Tanks (CR-566) PR 04286 Task 5.30	В	IRWD	\$7,568.99						0				
	SCADA Template Update (CR-622) PR 04286 Task 5.30	A	IRWD	\$2,775.05						0	1			
	Additional Lights in the Shower Stalls of the Solids Handling Building (CR-628) PR 04286 Task 5.30	С	FBB	\$1,639.80						0				
75.9	Relocation of Flow Switch in Sample Analysis Room (CR-637) PR 04286 Task 5.30	A	IRWD	\$1,676.81						0				
6	Pending Approval by Board of Directors				\$150,690.04	\$18,476,449.92	\$18,627,139.96	11.40%	\$182,093,079.96	0	368	368	100	1/0/196
	Pending Approval on March 26, 2018													
	Power Feed to Microturbine CLCs (CR-289) PR 04286 Task 5.30	В	FBB	\$49,534.35						0				
	Upsizing of Electrical Cables related to the Heat Drying System (CR-510) PR 04286 Task 5.30	В	FBB	\$4,670.94						0				
76.3	Additional Cables to MCC-1 (CR-538) PR 04286 Task 5.30	В	FBB	\$5,679.24						0				
76.4	Electrical Code Area Classification Change in the Digester Control Building Gas Room (CR-582A) PR 04286 Task 5.30 definitation - Project Related	С	IRWD	\$8,804.31						0				

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A - District Convenience Innatation - Project Related
B - Differing Site Conditions
C - Design Oversight
D - District Convenience Initiation - Non-Project Related
E - Contractor Convenience/Initiation
F - Contractor Convenience/Initiation
F - Contractor Requested Inspection Overtime

				Contract Amount							Contr	ract Days		Original Completion Date:
							Original Contra	ct Amount:	\$163,465,940.00		Orig	inal Days:	1,278	10/28/201
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders			Revised Completic Date
76.5	Addition of Water Source for the Foam Separator (CR-583) PR 04286 Task 5.31	С	FBB	\$8,418.23						0				
	SCADA Modifications on Solids Handling Polymer System (CR-620) PR 04286 Task 5.30	A	IRWD	\$7,761.00						0				
	3-Way Valve Graphical Modifications to SCADA (CR-621) PR 04286 Task 5.30	A	IRWD	\$22,540.18						0				
76.8	SCADA Modifications on FOG System (CR-623) PR 04286 Task 5.30	A	IRWD	\$7,970.58						0				
	SCADA Modifications on the Digested Tank Level (CR-626) PR 04286 Task 5.30	A	IRWD	\$8,898,86										
76.10	Solids Handling Building Stair Modifications (CR-634) PR 04286 Task 5.20	С	FBB	\$26,412.35						0				

A - District Convenience/Initiation - Project Related B - Differing Site Conditions C - Design Oversight D - District Convenience/Initiation - Non-Project Related E - Contractor Convenience/Initiation F - Contractor Requested Inspection Overtime

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

B - Differing Site Conditions

E - Contractor Convenience/Initiation

F - Contractor Requested Inspection Overtime TOTAL (A + B + C + D + E + F)

D - District Convenience/Initiation - Non-Project Related

C - Design Översight

				Contract Amount Original Contract Amount: \$163,465,5							Contr	ract Days		Original Completion Date:
							Original Contro	ict Amount:	\$163,465,940.00		Orig	zinal Days:	1,278	10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount		Cumulative Total of Change Orders	. ~	Revised Contract Amount	Change Order Days	Previous Change Orders	Total		Revised Completion Date
Category				Total Amount	% of Original Contract		· · · · · · · · · · · · · · · · · · ·		· -					
A - District Convenience/	- District Convenience/Initiation - Project Related													

7.67%

2.01%

0.00%

0.06%

-0.16%

11.40%

\$ 12,544,596.80

\$ 3,290,884.84

\$ 18,627,139.96

98,302.54

(262,020.00)

\$

\$

Category	Total Amount	% of Original Contract
IRWD-Initiation/Driven	\$ 3,962,198.64	2.42%
FBB-Initiation/Driven	\$ 14,494,221.10	8.87%
N/A	\$ 170,720.22	0.10%
TOTAL	\$ 18,627,139.96	11.40%

A - District Convenience/Initistion - Project Related
B - Differing Site Conditions
C - Design Oversight
D - District Convenience/Initiation - Non-Project Related
E - Contractor Convenience/Initiation
F - Contractor Requested Inspection Overtime

March 26, 2018

Prepared by: C. Kessler/K. Lew

Submitted by: K. Burton KLB

Approved by: Paul A. Cook

ACTION CALENDAR

TECHNOLOGY DRIVE AND LAGUNA CANYON ROAD CAPITAL RECYCLED WATER FACILITIES BUDGET INCREASE AND CONTRACT CHANGE ORDER

SUMMARY:

Irvine Community Development Company (ICDC) has completed the Technology Drive Extension project which includes the construction of streets, storm drains, domestic water, and recycled water improvements. As part of the project, ICDC constructed IRWD capital recycled water facilities within Technology Drive and Laguna Canyon Road. The project encountered significant challenges during construction causing major changes. Staff recommends that the Board:

- Authorize a budget increase in the amount of \$1,736,500, from \$3,223,500 to \$4,960,000, and
- Approve Contract Change Order No. 9 in the amount of \$1,131,065.61 for tasks related to changes to the construction scope of work for the Technology Drive and Laguna Canyon Road Recycled Water Facilities.

BACKGROUND:

ICDC has constructed the Technology Drive and Laguna Canyon Road Zone B Recycled Water pipeline as part of its Technology Drive Extension project under Master and Supplemental Reimbursement Agreements executed in May 1997 and December 2014, respectively. The project consists of approximately 6,000 feet of 24-inch cement mortar lined and coated steel pipeline (CMLC) within Laguna Canyon Road and the new Technology Drive extension. Construction of the pipeline began in March 2016 and was completed in December 2017. The improvements are shown in Exhibit "A".

Contract Change Order No. 9:

The project encountered numerous field issues that had substantial impacts to the schedule and budget. Contract Change Order (CCO) No. 9 comprises several Change Requests (CR) that represent added scope of work resulting from field issues and are summarized as follows.

Utility Conflicts in the amount of \$632,997.49 - Southern California Edison (SCE) and IRWD were simultaneously designing projects within Laguna Canyon Road. SCE's project, which included installing a conduit bank on the east side of Laguna Canyon between Irvine Center Drive and Technology, started construction prior to the beginning of construction of ICDC's project. As a result, the profile of IRWD's 24-inch steel pipe was required to be lowered to avoid conflicts with the recently-constructed SCE conduit bank (CR No. 7) and air vacuum valve lateral profiles were modified (CR No. 9). In addition, CR No. 11 represents additional construction and construction support tasks associated with various

Action Calendar: Technology Drive and Laguna Canyon Road Capital Recycled Water Facilities Budget Increase and Contract Change Order March 26, 2018

Page 2

conflicts throughout the pipe alignment. These costs include labor, equipment and material costs associated with:

- Resolving a conflict with a six-inch recycled water pipeline. The conflict was a result of lowering the 24-inch recycled water pipeline and the six-inch recycled water pipeline not being shown accurately on record drawings;
- Identifying and resolving conflicts with Department of Navy (DON)-owned facilities that were not shown on any record drawings. DON required hand digging to locate its facilities at the northern segment of the project; and
- Additional potholing throughout the alignment required to resolve various conflicts.

Brine Line Relocation in the amount of \$238,801.07 - The pipeline connection location at Laguna Canyon Road and Irvine Center Drive has numerous underground facilities that made it very difficult to connect to the existing 24-inch pipeline within Irvine Center Drive. To simplify the connection, IRWD decided to lower the existing 12-inch brine line serving IRWD's Potable Treatment Plant (PTP). Adjacent to the DON facilities, the 24-inch recycled water pipeline crossed the brine line in a second location. Unfortunately, a thrust block for the brine line was significantly larger than shown on the record drawing. CR No. 8 represents the costs associated with lowering the brine line at the Irvine Center Drive point of connection and resolving the Shallow Groundwater Unit thrust block conflict. This change order also includes work done to replace a valve on the brine line in order to facilitate a good shutdown for the brine line relocation.

Recycled Water System Shutdown in the amount of \$107,505.32 - The shutdown of the recycled water system to facilitate the connection of the 24-inch recycled water pipeline was significantly more complex than originally anticipated. Several commercial centers in the area are dual plumbed, utilizing recycled water for restrooms and cooling towers. In general, the recycled water system is not subject to redundant source of water requirements similar to IRWD's domestic system. To keep the customers in service during the shutdown, customers were temporarily converted over to domestic water. CR No. 12 represents the additional costs associated with the shutdown.

Miscellaneous Issues in the amount of \$151,761.73 - CR No. 13 represents the cost of additional labor, equipment and material for the following items that were not included in the original bid:

- Additional asphalt concrete grind and overlay;
- Replacement of concrete due to added appurtenances;
- Delivery of unused materials to IRWD due to material type changes;
- Replacement of traffic loops damaged during construction;
- Additional project overhead due to extended contract time driven by changes to scope; and
- Final bond adjustment cost.

A detailed summary of the project design and construction change orders is summarized in the Staff Report attached as Exhibit "B". Staff has reviewed CCO No. 9, negotiated costs where

Action Calendar: Technology Drive and Laguna Canyon Road Capital Recycled Water

Facilities Budget Increase and Contract Change Order

March 26, 2018

Page 3

applicable, and found the amounts to be acceptable. No other CCOs are anticipated for the project.

FISCAL IMPACTS:

Project 01015 is included in the FY 2017-18 Capital Budget. Staff requests a budget increase in the amount of \$1,736,500 as shown in the table below:

Project	Current	Addition	Total
No.	Budget	<reduction></reduction>	Budget
01015	\$3,223,500	\$1,736,500	\$4,960,000

ENVIRONMENTAL COMPLIANCE:

Construction of capital recycled water facilities as a part of the Technology Drive Extension project is subject to California Environmental Quality Act. In conformance with the California Code of Regulations Title 14, Chapter 3, Article 7, an Environmental Impact Report was certified by the County of Orange on August 11, 1992 (920-31007).

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on March 20, 2018.

RECOMMENDATION:

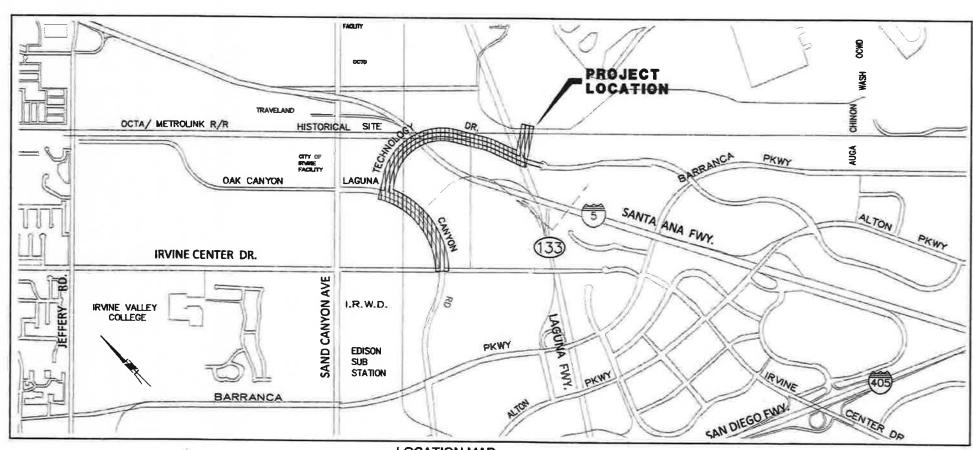
THAT THE BOARD AUTHORIZE A BUDGET INCREASE IN THE AMOUNT OF \$1,736,500, FROM \$3,223,500 TO \$4,960,000, AND APPROVE CONTRACT CHANGE ORDER NO. 9 IN THE AMOUNT \$1,131,065.61 FOR THE TECHNOLOGY DRIVE AND LAGUNA CANYON ROAD RECYCLED WATER FACILITIES, PROJECT 01015.

LIST OF EXHIBITS:

Exhibit "A" - Project Location Map

Exhibit "B" - Staff Report - Summary of Design and Construction Change Orders

EXHIBIT "A"



LOCATION MAP

Staff Report EXHIBIT "B"

Technology Drive and Laguna Canyon Road Capital Recycled Water Facilities Summary of Design and Construction Change Orders

	-	Michael Baker International Design Contract		
Contract Change Order No.	Date	Description	Amount	Status
Original Design	Dec 2014	The original design contract was authorized in December 2014.	\$288,680	Approved
Design	Nov	Pipeline diameter increased from 20-inch to 24-inch and material	\$40,777	Approved
CCO No 0	2015	from PVC to steel.	4 ,	
Design	Mar	Design Change Order 2 includes 60 additional hours for Pre-	\$71,797	Approved
CCO No. 8	2018	Construction and Field Meetings, 288 hours for Field Support Services and 120 hours Plan Revision processing during construction for a total of 468 additional. The additional hours were used to complete tasks including weekly coordination meetings at the ICDC's field office, utility conflict coordination field meetings, and	ŕ	
		RFI and submittal review that exceeded hours estimated within the		
		original design contract and deltas 1 through 7.		
		DESIGN CONTRACT TOTAL	\$401,254	
		Sukut Construction Contract		
Contract Change Order No.	Date	Description	Amount	Status
Original	Nov	Original Construction Contract was authorized November 23, 2015.	\$2,344,000	Approved
Construction Contract	2015			
Construction	Mar	Railroad Insurance Premium. Additional insurance requirements	\$30,976.25	Approved
CCO No. 1	2017	for construction within railroad right-of-way		
Construction	Mar	Added Ductile Iron Spools. Correction to plan per RFI 18. Per	\$10,486.48	Approved
CCO No. 2	2017	specification, IRWD requested DI spools to be changed from CLMC to ductile iron and be installed on both sides of butterfly valves. Increased quantity by 7.		
Construction CCO No. 3	Mar 2017	AC Street Sections. While potholing existing facilities it was discover that the existing roadway structural sections were vastly different than how it was shown on plans. Approved plans show standard cover of 4-inch asphalt over 6-inch rock base. Due to poor soil conditions, actual street sections were designed and installed as much as 8-inch asphalt over 22-inch rock base. This change order includes additional costs	\$382,074.72	Approved
		related to additional removal and replacement.		
Construction CCO No. 4	Mar 2017	Approved Plans Bid Adjustment. Deduction of \$1,109,400 and addition of items 1 thru 7 for in the total amount of \$1,225,950.97	\$116,550.97	Approved
Construction CCO No. 5	Mar 2017	Added Potholing Costs. 1) Potholing of existing utilities as identified by USA/Dig alert. 2) An SCE encasement was located during potholing that had not made it to SCE's record drawings. The SCE encasement ran entire length of Laguna Canyon and as a result required substantial potholing to redesign around conflicts. 3) At the Irvine Center Drive point of connection (POC), numerous utility crossings hindered constructability. As a result additional potholing was required	\$78,052.67	Approved

Construction CCO No. 6	Feb 2017	<u>Utility Conflicts and Relocations</u> . Additional cost associated with slower production/additional shoring due to crossing existing 4-inch RW at STA 30+70 that was not identified on plans. Additional cost to modify AV at STA 40+22 to maintain min. clearance to adjacent utilities.	\$4,334.64	Approved
Construction CCO No. 7	Feb 2018	Injection Well Realignment. This change order includes all labor, equipment, and material costs associated realigning the 24-inch pipeline around the Shallow Ground Water Unit (SGU) Injection Well Site (station 65+60) per Delta 6 Plan revision.	\$48,176.76	Approved
Construction CCO No. 7	Feb 2018	Cost involved with slow production for CCOs 1 and 3 was duplicated. This CCO is a deduction to correct for the duplication.	<\$4,334.64>	Approved
Construction CCO No. 7	Feb 2018	Additional Survey MBI	\$3,687.50	Approved
Construction CCO No.7	Feb 2018	Additional Soils GMU	\$15,400.00	Approved
Construction CCO No. 9	Mar 2018	Delta 4 Plan Changes. This change order includes all added labor, equipment and material cost associated with modifying the pipeline profile in order to avoid conflict with an existing SCE duct bank within the Irvine Center Drive and Laguna Canyon Road intersection. The pipeline profile was deepened in order to avoid conflict with numerous other existing utilities. Plan changes also added an air vac assembly in the Irvine Center Drive intersection, modified connection details and added ductile iron spools, as well as added a detail to remove portions of an existing waterline at station 60+22. (CR 7)	\$305,831.00	Currently Requested
Construction CCO No. 9	Mar 2018	Delta 5 Plan Changes This change order request includes all estimated labor, equipment, materials, and subcontractor costs required to construct the revised air vac appurtenances per the approved Delta 5 Plan Revisions. (CR 9)	\$28,511.06	Currently Requested
Construction CCO No. 9	Mar 2018	Utility Conflicts and Relocations This change order request includes all added labor, equipment, and material costs associated with various conflicts and/or relocations including a 6-inch recycled water line, a 2-inch domestic service, various irrigation lines and relocation of an air vac. This change order request also includes labor, equipment and material costs associated with additional potholing that was required by the project. Additional potholing was required due to utility conflicts not shown on the plans, revised alignments of appurtenances due to delta 5 and 6 plans, hand digging to expose Navy-Owned utilities not shown on plans, and excavation of new "windows" for gas and fuel utilities. (CR 11)	\$298,655.43	Currently Requested
Construction CCO No. 9	Mar 2018	Brine Line Relocations This change order request includes all added labor, equipment, and material cost associated with the relocation of the existing Shallow Ground Water Unit (SGU) 12" brine in Irvine Center Drive. The work on the brine relocation started on 1/24/17 and on 1/26/17 when the line was to be drained, it was determined that the existing valves on the line would not hold and the shutdown was abandoned. Sukut had to install a tapping sleeve and valve to close the line while a new plan was developed. Ultimately the brine line was relocated and a new plug valve was installed in the intersection of Irvine Center Drive to facilitate the shutdown and complete the relocation. This change order also includes all labor, equipment, and material costs associated with the brine line relocation work north of the railroad tracks	\$238,801.07	Currently Requested
		near Marine Way. The proposed 24" recycled waterline alignment was too close to the existing thrust blocks of the 6" brine line. In order to install the 24" waterline, a portion of the existing brine line had to be relocated. (CR 8)		

		This change order request includes all added bond premium costs for all added change order work performed during the contract. (CR 13) CONSTRUCTION CONTRACT CHANGE	\$1,888,407.96	
		This change order request includes all added labor and rental charges associated due to extended project duration. This request is for the extended overhead for 22 working days added to the contract schedule resulting from the 22 full shifts of T&M work conducted for the brine relocation in Irvine Center Drive, the 6" RW conflict, the brine relocation at Marine Way, additional potholing, additional time for the tie-in, and the 24" to 4" interconnect.		
		This change order request also includes all labor and subcontractor costs required to replace traffic signal loops on Irvine Center Drive, Laguna Canyon Road, and Discovery. Modifications to the pipelines appurtenances required removal and replacement of traffic signal loops.		
		This change order request also includes all labor, equipment, and material costs associated with the removal and replacement of concrete street improvements impacted by the modified design of the 24" recycled waterline. Additional street improvements were damaged due to the construction of added appurtenances or the concrete was damaged due to potholing of items that were later deleted.		
		and subcontractor costs associated with the increase in cost for the 2" AC grind and cap. Due to the significant delays to the project, the original bid pricing for the 2" AC grind and cap expired. This request includes the additional traffic control required to grind and cap the southbound lanes of Laguna Canyon Road where the air vac was redesigned and rerouted to the west of the intersection. This change order request also accounts for the added quantity of 2" grind and cap that was performed within Irvine Center Drive, Laguna Canyon Road, and the Technology Drive intersection.		
Construction CCO No. 9	Mar 2018	This change order request also includes all added labor, equipment, and material costs associated with the construction of the 24" to 4" RW interconnection as shown on the Approved Delta 7 plan revisions. (CR 12) Project Close-out and Punch List This change order request includes all added labor, equipment, materials,	\$151,761.73	Currently Requested
Construction CCO No. 9	Mar 2018	Tie-in and Interconnects This change order request includes all added labor, equipment, and materials required to complete the tie-in of the 24" recycled waterline in the Irvine Center Drive intersection. The actual field conditions encountered during the tie-in were not as they were originally designed. The deviation from the plan resulted in additional crew time that increased the cost of the tie-in work. A temporary back-feed assembly had to be constructed and removed in order to facilitate the shut down of the existing 24" RW.	\$107,505.32	Currently Requested

March 26, 2018

Prepared by: K. Welch

Submitted by: F. Sanchez/P. Weghorst

Approved by: Paul A. Cook

ACTION CALENDAR

TERMS FOR LONG-TERM EXCHANGE PROGRAM WITH ANTELOPE VALLEY-EAST KERN WATER AGENCY

SUMMARY:

On December 21, 2017, the Supply Reliability Programs Committee approved proposed terms for a Long-Term Exchange Program with Antelope Valley-East Kern Water Agency (AVEK). These terms would allow AVEK to deliver State Water Project (SWP) water into storage at the Stockdale Integrated Banking Project (Stockdale Water Bank) on a 2-for-1 basis. AVEK would be able to deliver up to 20,000 acre feet (AF) multiple times between now and year 2035. On March 13, 2018, AVEK's Board of Directors approved the proposed terms. Staff recommends that the Board approve the proposed terms and authorize the general manager to execute an agreement based on the terms, subject to any substantive changes being approved by the Supply Reliability Programs Committee.

BACKGROUND:

AVEK is a SWP Contractor that has Table A supplies of water in excess of its demands and that also exceed the recharge capacity of its water banking facilities in the Antelope Valley. On November 28, 2017, staff met with the General Manager of AVEK to discuss implementing a mutually beneficial long-term exchange program that would allow AVEK to deliver SWP water into storage at the Stockdale Water Bank on a 2-for-1 basis. As a result of this meeting, staff prepared proposed draft terms for a Long-Term Exchange Program between IRWD and AVEK. These terms were reviewed with the Supply Reliability Programs Committee on December 21, 2017. Staff made non-substantive revisions based on feedback from the Committee and submitted the terms to AVEK for its review.

On March 1, 2018 AVEK staff reviewed the proposed draft terms with AVEK's Water Resources and Operations Committee. AVEK's Committee then submitted the terms to the full AVEK Board of Directors for its consideration on March 13. AVEK's Board of Directors approved the terms and authorized AVEK's General Manager to work with IRWD to prepare an agreement based upon the terms. The approved terms are provided as Exhibit "A".

Overview of Exchange Program Terms:

The proposed terms for the Long-Term Exchange Program would allow AVEK to deliver SWP water for recharge at the Stockdale Water Bank on a 2-for-1 basis. AVEK would be allowed to deliver water into storage multiple times between now and 2035. The total amount of storage that would be dedicated to the exchange program would be 20,000 AF. IRWD would return half of the water, less a proportional share of losses, to AVEK by the end of the seventh full year after each associated recharge event. IRWD and AVEK would each pay for their respective share of recharge and recovery costs. It is expected that AVEK would be able to deliver water to

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Water Agency March 26, 2018

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the water bank when the SWP allocation is at or above average conditions. If AVEK does not exercise its rights to deliver water into storage, then IRWD would have the discretion to use AVEK's unused storage capacity for other IRWD programs or to reduce the total storage capacity allocated to AVEK.

Required Approvals:

Implementation of the Long-Term Exchange Program would require approval by the California Department of Water Resources (DWR), Metropolitan Water District of Southern California (Metropolitan), and the Kern County Water Agency (KCWA) through the execution of an Exchange and Point of Delivery Agreement that would be prepared by DWR. Metropolitan's consent is required for IRWD to secure SWP water as specified in IRWD's Coordinated Operating and Exchange Agreement with Metropolitan (Coordinated Agreement). The execution of the Long-Term Exchange Program Agreement between IRWD and AVEK, with Metropolitan providing its signed consent, would initiate the process for DWR to develop the Exchange and Point of Delivery Agreement.

Staff recommends that the Board approve the proposed terms and authorize the General Manager to execute an agreement for a Long-Term Exchange Program between Irvine Ranch Water District and Antelope Valley-East Kern Water Agency, subject to substantive changes approved by the Supply Reliability Programs Committee. Upon approval of the terms, staff and IRWD legal counsel will work with AVEK and its legal counsel in the preparation of the agreement.

FISCAL IMPACTS:

Under the terms of the proposed Long-Term Exchange Program, IRWD would pay approximately \$42 per AF for the recharge of its share of AVEK's SWP Table A water delivered into storage. Recovery of IRWD's share of the water would cost approximately \$79 per AF. IRWD and AVEK would equally share the cost of administration fees charged by the Kern County Water Agency, which are expected to be \$5 per AF for the water delivered into storage. Consistent with the Coordinated Agreement, IRWD would pay Metropolitan the full service Tier-1 rate for either treated or untreated water delivered to IRWD's service area.

ENVIRONMENTAL COMPLIANCE:

Final Environmental Impact Reports for the Strand Ranch and Stockdale Integrated Banking Projects were prepared, certified and approved in compliance with the California Environmental Quality Act (CEQA) of 1970 as amended, codified at California Public Resources Code Sections 21000 et seq., and the State CEQA Guidelines in the Code of Regulations, Title 14, Division 6, Chapter 3. Rosedale, as lead agency, filed Notice of Determinations for both the Strand Ranch and Stockdale Integrated Banking Projects with the County of Kern. IRWD, as a responsible agency, filed Notice of Determinations with the County of Orange and with the County of Kern.

COMMITTEE STATUS:

This item was reviewed by the Supply Reliability Programs Committee on December 21, 2017.

Action Calendar: Terms for Long-Term Exchange Program with Antelope Valley-East Kern

Water Agency March 26, 2018 Page 3

RECOMMENDATION:

THAT THE BOARD APPROVE THE PROPOSED TERMS FOR A LONG-TERM EXCHANGE PROGRAM BETWEEN ANTELOPE VALLEY-EAST KERN WATER AGENCY AND IRVINE RANCH WATER DISTRICT AND AUTHORIZE THE GENERAL MANAGER TO EXECUTE AN AGREEMENT BASED ON THE TERMS, SUBJECT TO ANY SUBSTANTIVE CHANGES BEING APPROVED BY IRWD'S SUPPLY RELIABILITY PROGRAMS COMMITTEE.

LIST OF EXHIBITS:

Exhibit "A" – Proposed Terms for a Long-Term Exchange Program Between Irvine Ranch Water District and Antelope Valley-East Kern Water Agency

Exhibit "A"

DRAFT

Proposed Terms for a Long-Term Exchange Program
Between Irvine Ranch Water District and
Antelope Valley-East Kern Water Agency (AVEK)
December 21, 2018

Parties	Irvine Ranch Water District (IRWD); and Antelope Valley-East Kern Water Agency (AVEK)
Description	IRWD and AVEK would implement a Long-Term Exchange Program (Exchange Program) that would allow AVEK to deliver State Water Project (SWP) water into storage at IRWD's Stockdale Integrated Banking Project (Water Bank) on a 2-for-1 basis. Recharge and recovery facilities at both the Strand Ranch and Stockdale Integrated Banking Projects could be used to deliver water in and out of storage at the Water Bank.
Term	The Exchange Program would end on December 31, 2035.
Storage Capacity	Up to 20,000 AF of storage capacity in the Water Bank would be dedicated to the Exchange Program. The maximum account balance to be allocated for the storage of AVEK's share of the water stored in the Water Bank would be 10,000 AF. IRWD at its sole discretion could increase the total storage capacity allocated to the Exchange Program with a proportional increase in AVEK's maximum account balance. Should AVEK provide notice to IRWD that it will not deliver Exchange Water in years with State Water Project allocations at or above 60 percent, then IRWD at its discretion would have the ability to use the Exchange Program storage capacity for other IRWD programs or reduce the total storage capacity and maximum account balance allocated to AVEK.
Exchange Water	AVEK will supply SWP water to the Water Bank available to AVEK through its SWP Contract with the Department of Water Resources (DWR). One-half of the Exchange Water delivered into storage would be deemed transferred to IRWD.
Return Water	Water shall be returned, when requested by AVEK, at an annual rate of no more than one-third of the maximum account balance allocated to AVEK, after losses and not to exceed 3,333 AF per year. IRWD could allow AVEK to recover more water in a year, should IRWD determine that the use of additional recovery capacity by AVEK would not infringe on IRWD's ability to recover water for itself and/or IRWD's other partners. AVEK's share of the water recharged and stored may not remain in storage beyond the end of the 7th calendar year after the delivery of water into storage in the Water Bank. For example, if 10,000 AF of water (after losses) is delivered by AVEK into storage in year 1, then AVEK's 5,000 AF share must be returned by the end of year 8. If another 10,000 AF of water (after losses) is delivered by AVEK into storage in year
Losses	3, then AVEK's 5,000 AF share must be returned by the end of year 10. Water Banking losses shall be shared equally between IRWD and AVEK (between 11 and 15%). AVEK and IRWD each may incur additional conveyance losses of 1% to 2% in the Cross Valley Canal (CVC) for conveyance of each agencies share of the water, as measured and assessed by Kern County Water Agency.
	water, as measured and assessed by Kern County water Agency.

Recharge Costs	IRWD and AVEK would each be responsible for one-half of all costs assessed to IRWD by Rosedale-Rio Bravo Water Storage District (Rosedale) for recharging water at the Water Bank. These costs may include Rosedale's administrative charge, charges assessed by the Kern County Water Agency (KCWA), Cross Valley Canal (CVC) Standby, applicable CVC pumping and O&M costs, and applicable fixed and variable O&M Water Bank costs.
SWP Fixed and Variable Costs	IRWD and AVEK would each be responsible for one-half of all SWP related variable costs incurred with making the Exchange Water available for recharge at the Water Bank.
	AVEK shall pay all fixed SWP costs associated with making the water available for recharge, including water that will be allocated to IRWD.
	IRWD and AVEK would each be responsible for actual costs of recovery for each agency's respective share of the water either through well pumping or by exchange. These costs may include Rosedale's administrative charge, charges assessed by the KCWA, CVC Standby, O&M, and applicable CVC pumping costs, and applicable fixed and variable O&M Water Bank costs.
Recovery Costs	AVEK will pay all conveyance costs in the Aqueduct associated with the delivery of recovered water to AVEK's service area or other AVEK delivery points.
	IRWD and AVEK would each share any costs assessed by Rosedale under its Long Term Operations Plan for implementing provisions of the MOUs to prevent impacts from operations. It is expected that banking projects, such as the Water Bank, will be required to contribute \$2.00/AF for recovered water to a fund, which may be used to meet mitigation obligations.
Agency Coordination	IRWD and AVEK would cooperate with DWR and Metropolitan Water District of Southern California in preparing all necessary agreements to facilitate the Exchange Program.
Environmental Compliance	Both parties shall comply with California Environmental Quality Act (CEQA) and cooperate with one another with respect to CEQA compliance that may be required by the DWR for the proposed Exchange Program. IRWD has already conducted environmental review under CEQA for the Strand and Stockdale Integrated Banking Projects that takes into consideration the delivery, storage and recovery of SWP water. Rosedale certified and IRWD and approved the CEQA documents for the Strand and Stockdale Integrated Banking Projects. IRWD and AVEK will share equally any additional costs associated with environmental review or permitting deemed necessary for delivering AVEK water into storage (however, none are expected). Both IRWD and AVEK shall each be responsible for any other environmental review or permitting necessary to implement the Exchange Program within their own respective service areas.
General Expenses	Each Party would be responsible for its own fees and expenses arising out of the negotiation and execution of the Exchange Program Agreement, obtaining necessary approvals and the like.

March 26, 2018

Prepared by: B. Meserlian Submitted by: K. Drake

Approved by: Paul A. Cook

ACTION CALENDAR

ENTERPRISE ASSET MANAGEMENT IMPLEMENTATION SERVICES

SUMMARY:

Following a successful implementation of the Maximo Enterprise Asset Management (EAM) software, IRWD is now seeking to maximize the use of Maximo among various District functions. Staff recommends that the Board authorize the General Manager to execute a Professional Services Variance with Total Resource Management (TRM) for a not-to-exceed cost of \$216,876.80 to implement the Maximo Scheduler module, and extend the use of Maximo to the Fleet Services Department.

BACKGROUND:

The term "Enterprise Asset Management" refers to the lifecycle management of assets through its various states: planning, design, construction, commissioning, operation, maintenance, and decommissioning. An EAM system records the state and criticality of assets, identifies rehabilitation and replacement needs, and enhances the planning and scheduling of maintenance activities.

EAM Program Status:

The District's EAM program is subdivided into multiple phases and milestones. Phase 1 of the program included pre-implementation activities that primarily focused on asset database development. Phase 2 of the program involved the implementation of the software, divided into three parts as illustrated in Table 1 below. The stepped approach outlined in Table 1 was adopted to expedite the development of a maintenance platform for the District's "vertical" facilities (treatment plants, pump stations, lift stations, wells, reservoirs, and valve stations). Subsequently, the focus of the EAM program now shifts to other types of District functions and assets.

The core component of the EAM software, known as "Work and Asset Management", is complete. As of October 26, 2017, District employees can initiate, plan, schedule, track, and complete work orders within Maximo. Maximo is now capable of logging work and asset history on approximately 29,000 pieces of equipment that make-up the District's "vertical asset" portfolio. To establish Maximo as the sole work-order system, staff will need to implement supplementary Maximo modules, while continuing to incorporate other types of District assets into the system. The next set of assets to be incorporated into Maximo include IRWD's two administration buildings, natural treatment system (NTS), siphon structures, District vehicles, the Biosolids Facility, and the thousands of pipeline segments, manholes, and laterals that make up the District's linear asset portfolio.

Action Calendar: Enterprise Asset Management Implementation Services

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Table 1: EAM Program Phases and Milestones

EAM Program Milestones	Target Completion	Current Status		
Phase 1: Pre-Implementation				
Asset Identification/ Inventory	August 2016	Complete		
EAM Software Selection	May 2016	Complete		
Implementer Selection Process	October 2016	Complete		
Phase 2: Implem	nentation			
EAM Software Procurement	December 2016	Complete		
Part 1: Work & Asset Management – Go Live 1	October 2017	Complete		
Material Inventory/ Planning – Go Live 2	April 2018	Ongoing		
HQ & Ops Building Assets (including Lab)	April 2018	Ongoing		
NTS/ Siphon Assets	May 2018	Ongoing		
Maximo Scheduler,	June 2018	-		
Maximo for Fleet Assets,	October 2018	-		
Biosolids Facility Assets	December 2018	Ongoing		
Part 2: Linear Assets	June 2019	¥		
Part 3: Info. Services & SCADA integration	December 2019	¥		

EAM Implementation Services:

In November 2016, the District entered into a Professional Services Agreement with TRM to implement Maximo's Work & Asset Management system. TRM's services began in late December 2016 with an aggressive schedule to complete the first Go-Live milestone within 10 months. This first milestone was achieved on time and budget. Staff is currently working towards completing the second Go-Live milestone by April 2018.

Moving forward, staff is seeking to extend TRM's services through October 2018 to implement a robust work planning/scheduling tool known as Maximo Scheduler, and to enable the use of Maximo for fleet assets. TRM's scope will generally include:

- 1. Design, configuration, testing, and training services for the implementation of Maximo Scheduler by June 2018. The Scheduler module focuses on two graphical features that are designed to streamline the work order scheduling and assignment process. The graphical scheduling feature includes a Gantt chart view of open work orders that promotes proactive scheduling of multi-functional work. The graphical assignment feature illustrates scheduled labor needs versus staff availability, streamlining the assigning of work orders to staff.
- 2. Development, integration, testing, and training services to enable fleet assets in Maximo by October 2018. TRM and staff reviewed current business procedures at the Fleet Services Department and concluded that there are no compelling requirements to justify the expense of implementing Maximo's Transportation module. Instead, staff has elected to utilize the existing Maximo system to manage fleet work and assets, with the least amount of modifications to the current configurations.

Action Calendar: Enterprise Asset Management Implementation Services

March 26, 2018

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Staff recommends the execution of a Professional Services Variance in the amount of \$216,876.80 with TRM for these services. TRM's proposal is attached as Exhibit "A".

FISCAL IMPACTS:

Projects 03566 and 03567 are included in the FY 2017-18 Capital Budget, and the existing budget is sufficient to fund the consulting services described above.

Project	Current	Addition	Total
No.	Budget	<reduction></reduction>	Budget
03566	\$2,682,100	\$-0-	\$2,682,100
03567	\$2,682,100	\$-0-	\$2,682,100
Total	\$5,364,200	\$-0-	\$5,364,200

ENVIRONMENTAL COMPLIANCE:

This activity is not subject to the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15060 (c)(1) Preliminary Review. An activity is not subject to CEQA if the activity will not result in a direct reasonably foreseeable indirect physical change to the environment.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on March 20, 2018.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES VARIANCE WITH TOTAL RESOURCE MANAGEMENT FOR A NOT-TO-EXCEED COST OF \$216,876.80.

LIST OF EXHIBITS:

Exhibit "A" - Total Resource Management Proposal



Technical Consulting Services Proposal

Submitted to:

Irvine Ranch Water District Ken Drake Assistant Director of Maintenance Irvine Ranch Water District 3512 Michelson Dr. Irvine, CA 92612

Maximo Implementation Project – Variance 01

Prepared by:

Total Resource Management 510 King Street, Suite 200 Alexandria, Virginia 22314 (703) 548-4285



Feburary 13, 2018

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1. Maximo Implementation Project- Supplemental Activities

The following tasks/activities around the **Implementation of Maximo Scheduler Graphical Scheduling and Graphical Assignment applications** and the implementation of **Fleet Assets** are being requested for addition to the scope of Part 1 of the Maximo Implementation Project. These requirements were identified as being necessary to meet business needs and support business processes.

General Assumptions:

- TRM will own Dev, SAND and QA during the functional implementations
- TRM will only patch to fix a defect related to the scheduler or fleet implementation
- IRWD will implement patches, perform backups, and troubleshoot existing integrations, configurations, and rules.
- PM Status calls will be conducted every other week.

1.1 Maximo Scheduler Implementation Schedule

Task Name	Start	Finish
Scheduler and Graphical Assignment Rollout	Mon 2/19/18	Fri 6/8/18
33 - Workshop	Mon 2/19/18	Fri 3/16/18
Prep	Mon 2/19/18	Thu 3/1/18
Conduct Onsite Workshop	Mon 3/5/18	Fri 3/9/18
Requirements Documentation	Mon 3/12/18	Fri 3/16/18
Project Management	Fri 3/2/18	Tue 3/6/18
34 - Scheduler and Graphical Assignment Development	Mon 3/19/18	Thu 4/19/18
Configuration	Mon 3/19/18	Fri 3/30/18
Documentation of Configuration	Mon 3/19/18	Fri 3/23/18
Unit Testing	Mon 4/2/18	Tue 4/3/18
Move to QA	Wed 4/18/18	Thu 4/19/18
Project Management	Mon 3/19/18	Wed 3/21/18
35 -Scheduler and Graphical Assignment UAT	Mon 4/2/18	Mon 5/21/18
Create UAT Scripts	Fri 4/20/18	Thu 4/26/18
Retest with UAT Scripts	Fri 4/27/18	Thu 5/3/18
Conduct UAT on QA	Tue 5/8/18	Mon 5/21/18
Project Management	Mon 4/2/18	Tue 4/3/18
36 - Scheduler and Graphical Assignment Training	Wed 4/4/18	Fri 6/1/18
Develop Training Documentation	Wed 4/4/18	Tue 4/24/18
Deliver Training - First 3 days	Tue 5/29/18	Fri 6/1/18
Project Management	Tue 5/22/18	Wed 5/23/18
37 - Go-Live	Mon 6/4/18	Fri 6/8/18
Post Go-Live Support	Mon 6/4/18	Fri 6/8/18

1.2 Maximo Scheduler Requirements Workshop

TRM will conduct a 2-day workshop to understand and document IRWD requirements for the Maximo Scheduler Graphical Scheduling and Graphical Assignment applications. This includes workshop prep, delivery, and follow-up deliverables.

Workshop Activities:

- Determine level of Labor Availability required
- Define Labor Availability Business Process
- Define Scheduling Business Process
- Define Assignments Business Process
- Define Business Process for the end of the week
- Define Schedule Set Up: Work Orders and PM Forecasting
- Define Assignments Set Up
- Define/Update Security Groups
- Define Start Centers (new and/or changes)

Deliverables:

- Deliver 3-day workshop
- Documented workshop notes
- Requirements and Design documentation
- Updated business process flows

Assumptions:

- Maximo Scheduler software is enabled during Part 1, Go Live 2
- Labor is correctly associated to crafts
- Two TRM consultants, Maren Norell & Janice Colbeth will conduct the workshop
- TRM Requirements Matrix in Excel will be utilized for the requirements and design document

1.3 Maximo Scheduler Development

Based on the requirements documented during the workshop, TRM will configure the Graphical Scheduling, Availability and Graphical Assignment applications. Activities will include configuration, documentation of the configuration, unit testing, and moving the configurations/changes to QA and ultimately promote to PROD.

Deliverables:

- Configured Development environment. Configuration will include (but not limited to)
 utilizing rules to populate the Owner field via Graphical Assignment.
- Documented configurations
- Unit testing results

Assumptions:

 TRM Configuration Details done in Excel will be utilized to document the configurations and unit testing results.

1.4 Maximo Scheduler UAT

TRM will prepare for and conduct/lead User Acceptance Testing (UAT) for the IRWD Maximo system. Unit tested configurations will be migrated to the QA environment for functional testing and UAT. TRM will perform the functional testing using the prepared test scripts as part of preparations for UAT.

There will be two days of onsite UAT testing sessions using test scripts that TRM will develop. Areas of testing will include the following: Graphical Scheduling Work Order & PM Forecasting Schedules, Graphical Assignment Work Lists, Calendars, Labor, and Availability.

The TRM consultant leading UAT will track issues encountered during testing and will coordinate resolutions and retesting where necessary.

Deliverables:

- Build to QA
- UAT Test Scripts
- Two-day UAT session
- Log of Identified Issues

Assumptions:

- One TRM consultant will be onsite for UAT
- IRWD will print hardcopies of the UAT test scripts
- IRWD will setup PCs for UAT

1.5 Maximo Scheduler Training

TRM will promote the approved configurations from UAT to the QA environment. TRM will provide training documentation and deliver training on the QA environment for the use of the Maximo Scheduler Graphical Scheduling and the Graphical Assignment applications.

Training classes will include:

- 3 (1) day Graphical Scheduling class
- 3 (½) day Graphical Assignment class
- 1 (1) day Scheduler Administration class

Deliverables:

- Build to QA environment
- Six days of delivered training
- Training manuals

<u>Assumptions</u>

- IRWD will provide a Maximo SME to attend and assist with the classes
- TRM will have delivered planning and scheduling refresher training as part of Go-live 2
- IRWD will print training manuals
- TRM will provide training laptops (50/3) ~ 18 Laptops

1.6 Maximo Scheduler Go-Live and Post Go-Live Support

TRM will promote the approved configurations from UAT to the PROD environment for Go Live. TRM will provide support during and after the Go-live of Maximo Scheduler Graphical Scheduling and Graphical Assignment.

<u>Deliverables</u>:

- Go-live build
- One person on-site for 4 days for Post Go-live support

1.7 Fleet Implementation Schedule

Task Name	Duration	Start	Finish
RWD Fleet Implementation	84 days	Mon 6/13/11	Thu 10/6/11
Contract Awarded	0 days	Mon 6/13/11	Mon 6/13/11
Project Planning	5 days	Mon 6/13/11	Fri 6/17/11
Fleet	79 days	Mon 6/20/11	Thu 10/6/11
38 - Fleet Implementation Work Shop	26 days	Mon 6/20/11	Mon 7/25/11
Research and Prepare for meetings	2 wks	Mon 6/20/11	Fri 7/1/11
Prepare and Conduct Process Identification Meetings for Asset & Meters	5 days	Mon 7/11/11	Fri 7/15/11
Generate Documentation from the Meeting	5 days	Mon 7/18/11	Fri 7/22/11
PM Status	1 day	Mon 7/25/11	Mon 7/25/11
39 - Fleet Development	21 days	Mon 7/25/11	Mon 8/22/11
Load Asset Data, Locations, Classification & Failure Reporting	10 days	Mon 7/25/11	Fri 8/5/11
Configure Maximo - Start centers, Email Notifications, etc	5 days	Mon 8/8/11	Fri 8/12/11
Configuration Integration	3 days	Mon 8/15/11	Wed 8/17/11
Document Configuration Changes and generate IDD for interface	3 days	Thu 8/18/11	Mon 8/22/11
40 - Promote Changes to QA and Conduct UAT	11 days	Tue 8/23/11	Tue 9/6/11
Promote Changes	2 days	Tue 8/23/11	Wed 8/24/11
Create UAT scripts for process	3 days	Tue 8/23/11	Thu 8/25/11
Conduct UAT	3 days:	Tue 8/30/11	Thu 9/1/11
Make adjustments / fix issues	3 days	Fri 9/2/11	Tue 9/6/11
41 - Fleet Training	13 days	Wed 9/7/11	Fri 9/23/11
Promote Changes to Training	2 days	Wed 9/7/11	Thu 9/8/11
Create Quick Reference Guides	3 days	Wed 9/7/11	Fri 9/9/11
Conduct 3 days of training using existing guides with supplemental Quick Reference Guides	4 days	Tue 9/20/11	Fri 9/23/11
42 - Fleet Data Entry and Go-Live	9 days	Mon 9/26/11	Thu 10/6/11
Promote Changes to Prod	2 days	Mon 9/26/11	Tue 9/27/11
On-site Lead the entry of Job plan and PM and meter data	3 days	Wed 9/28/11	Fri 9/30/11
Test Integration with Prod and Generate PM's	1 day	Mon 10/3/11	Mon 10/3/11
Support End-User - On-Site 3 days	3 days	Tue 10/4/11	Thu 10/6/11

1.8 Fleet Implementation Workshop

IRWD has reviewed the Maximo Fleet vertical and in comparison with their requirements and the current configuration of Maximo there are no compelling requirements that justify the expense of additional fleet licenses and the expense of implementing a new suite of applications with the overhead of maintaining separate training classes, training material, system patches, etc. Therefore, the Fleet group will utilize the existing configuration of Maximo with the least changes to the current configurations.

TRM will conduct a 2-day workshop to further elaborate on the business and functional requirements, demoing and verifying the proposed design and configuration requirements of the system. TRM will prepare for the workshop by configuring the IRWD development environment with a visual representation of how the system will be utilized for fleet based on the business/application requirements listed below. Upon the completion of the workshop the final design and the expected business process should be identified.

Business / Application Requirements

- Work Orders will be created through the existing work order application
- Work Order Classifications will be utilized to categorize work similar to the VRMS code function. This will allow the work orders to be categorized and the description to be uniformed

- Failure Hierarchy will be designed for fleet to record component and work accomplished
- PM's will be utilized to generate weekly standing work orders Shop, Drive Up and Road Call
- Emergency Work Type will be utilized if a vehicle comes in and has to be repaired that day
- Job Plans need to be built out for typical recurring corrective work, this will populate work order description and planned hours.
- Prefix existing asset numbers with an F to keep current asset number and not duplicate asset numbers in the system.
- Spare parts will be identified for each fleet asset
- Under Warranty function will be available for the fleet assets
- One new interface point will be established to import Mileage information from the new Fuel Master application
- Fleet Manager Start Center will be created to monitor additional items such as mileage that has exceeded a set tolerance, list of Vehicles due in for PM
- People Locations or Custodian will be utilized to identify who will be contacted for PM service
- PM's and Job Plan sequencing will be utilized to identify proper service per mileage
- Emails will be sent to users when it is necessary to bring in their vehicle
- PM Alerts will be utilized to identify if a vehicle that is in the shop for a corrective has a PM due within the set tolerance.
- Mechanics will utilize quick reporting to record, labor hours, parts used, log notes, failure reporting and current mileage
- Every Vehicle will have a meter record

Deliverables:

- Deliver 2-day workshop
- Documented workshop notes
- Requirements and Design documentation
- Write and Update business process flows

Assumptions

- Fleet will utilize existing processes, application and training documentation.
- All business / application requirements are identified in this document
- Inventory Management will not be implemented for Fleet
- No modifications to existing integrations will be executed
- TRM Requirements Matrix done in Excel will be utilized for the requirements and design document

1.9 Fleet Development

Application Configuration

Once the workshop is complete TRM will configure the development system based on the final decisions that were made during the workshop. Additionally, TRM will create the agreed upon failure hierarchy, location hierarchy for persons and work order classifications. TRM will review the history of issued spare parts and load the item spare parts list as non-stock and attach them as spares to the appropriate asset record. TRM will create a fleet management start center to address the additional information needed for the fleet implementation and make the appropriate security group changes.

Interface Development

TRM will also configure the inbound interface for the Fuel Master Integration to record mileage. The interface will be a daily process to import the exported mileage information from Fuel Master.

Deliverables:

- Configured Development environment
- Create Supporting data
 - Work Order Classifications
 - Failure Hierarchy
- Load Static Data
 - Assets with Odometer Meter
 - Spare Parts
- Working inbound Fuel Master Import
- Documented configurations
- Unit testing results

Assumptions:

- TRM Configuration Design Specs Excel document will be utilized to document the configurations and unit testing results
- TRM IDD will be used to document the interface configurations

Assumptions:

- IRWD will be responsible for establishing the fuel Master file generation and the transfer of that file to a shared fold accessible by the Maximo MIF.
- Fuel Master Integration is to support the proper execution of the preventative maintenance schedule. Any requirement to analyze fuel or fluid consumption will be executed with in the Fuel Master system
- No historic or transactional data will be loaded IRWD will review RTA for historic information
- IRWD will make any report modifications or new reports requested by the client

1.10 Fleet UAT

TRM will promote all changes to the IRWD QA environment. TRM will create UAT test scripts that reflect the agreed upon business process. The UAT does not contain training so it is important that the UAT participants also participated in the workshop. UAT will include interface testing.

Deliverables:

- UAT Scripts
- 2-Day UAT
- Issues Log
- Resolution of Issues

Assumptions

No new requirements will be incorporated during this phase.

1.11 Fleet Training

TRM will promote all changes to the IRWD training environment. TRM create role based quick reference guides that identify the specific fleet process. These documents will be supplemental to the existing training guides.

Deliverables:

2 (1) day class - for Work Order creation and completion

Assumptions:

- IRWD will print manuals
- TRM will provide training laptops

1.12 Fleet Go-Live and Data Entry

Upon the completion of training TRM will promote all changes to the production environment. TRM will conduct further sessions for entering and establishing the PM program and job plans for the fleet assets. TRM will provide 3 days of on-site support to enter the current meter readings, enter the PM's and job plans for the fleet assets with in the production system. Once the information has been established in Maximo. TRM will provide a 4th on-site day to assist with the entry of outstanding open work orders. Upon the completion of the 4th data entry day, the PM's will be generated and the mechanics will begin to use Maximo to complete their work orders.

Deliverables:

- 4 days of on-site support to support data entry
- 3 days of on-site support to support go-live

Assumptions:

- IRWD will provide at least 4 people to participate in the on-site data entry task
- IRWD with TRM lead will enter 300 PM's with supporting job plans into the live system

1.13 Proposed Cost

Scheduler Implementation			
Task	Scheduler Billing Milestones	FFP Amount	
33.1	Prepare and Conduct On-Site WorkShop	\$21,964.80	
33.2	Submit Documentation from Workshop	\$9,920.00	
34.1	Configuration and Documentation	\$27,200.00	
34.2	Complete Unit Testing and Promote to QA	\$8,000.00	
35	Complete UAT and Issue Resolution	\$30,925.80	
36.1	Submit Training Documentation for Printing	\$14,400.00	
36.2	Deliver Remaining Scheduler Training	\$0.00	
37	Go-Live Promotion and On-site Support	\$11,848.80	
	Total Cost	\$124,259.40	

	Fleet Implementation			
Task	Fleet Billing Milestones	FFP Amount		
38.1	Prepare and Conduct On-Site WorkShop	\$19,603.00		
38.2	Submit Documentation from Workshop	\$6,840.00		
39.1	Static Data Load	\$9,600.00		
39.2	Configuration and Documentation	\$13,360.00		
40	Complete UAT and Issue Resolution	\$13,685.80		
41	Deliver Training	\$11,817.00		
42	Establish PM Program & Go-Live	\$17,711.60		
	Total Cost	\$92,617.40		

March 26, 2018 Prepared and

submitted by: C. Compton

Approved by: Paul A. Cook

ACTION CALENDAR

FISCAL YEAR 2017-2018 AND FISCAL YEAR 2018-2019 GENERAL COUNSEL AND OTHER LEGAL SERVICES CONTRACTS

SUMMARY:

The District has elected to adopt a team approach to the procurement of legal services. The approach divides legal service responsibility for regular issues and matters across multiple law firms. In order to implement the District's chosen approach, staff recommends that the Board authorize the General Manager to enter into an agreement and execute two variances for legal services as follows:

- A Professional Services Agreement with Lewis Brisbois Bisgaard & Smith LLP for general counsel legal services focused on municipal law, transactional and non-complex issues, and rate-setting with a term of March 23, 2018, to September 30, 2018, and a not-to-exceed amount of \$375,000;
- A variance to the letter of engagement with Alston & Bird for legal services related to complex issues and litigation with a term of April 1, 2018, to June 30, 2019, and a not-to-exceed amount of \$1,500,000; and
- A variance to the Professional Services Agreement with Kronick Moskovitz Tiedemann & Girard for legal services related to water resources and policy matters with a term of April 1, 2018, to June 30, 2019, and a not-to-exceed amount of \$250,000.

BACKGROUND:

The District has recently changed its structure for the provision of general legal services, and has adopted a team approach that divides legal service responsibility for regular issues and matters among several law firms. The approach utilizes an outside general counsel who will provide legal services related to municipal law, transactional and non-complex issues, rate-setting, and other routine general counsel matters. The general counsel will also provide coordination among the District's various legal counsel. Additionally, the approach utilizes at least two different law firms to provide legal services related to complex issues, complex litigation, and legal matters related to water resources and policy issues. Staff will provide legal services management and legal service continuity along with having other duties.

In order to implement the District's adopted approach to general legal services, the District needs to enter into an agreement with the selected general counsel and modify the agreements it already has with two law firms. Staff recommends that the Board authorize the General Manager to enter into an agreement for legal services with Lewis Brisbois Bisgaard & Smith LLP (Lewis Brisbois), and modify the District's agreements with Alston & Bird and Kronick Moskovitz Tiedemann & Girard (Kronick). The services to be provided by each firm, along with proposed contract terms, are discussed in more detail below.

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Legal Services Contracts

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Services to be Provided by and Proposed Contract with Lewis Brisbois Bisgaard & Smith LLP:

Lewis Brisbois was appointed by the Board as IRWD's general counsel on March 23, 2018. Claire Hervey Collins will serve as the primary point of contact for the District and will serve in the role of general counsel for IRWD. While Ms. Collins will be providing the vast majority of the services required by IRWD, Paul Beck will have responsibility for assisting Ms. Collins and will serve as an assistant general counsel for the District in order to ensure continuity of service should Ms. Collins become unavailable.

As general counsel, Ms. Collins, and on occasion other members of the Lewis Brisbois firm, will provide general counsel legal services for the District focused on municipal law, transactional and non-complex issues, and rate-setting. A more complete description of the scope of work along with select terms of the proposed contract and the hourly rates proposed by the firm are provided in Exhibit "A".

Staff recommends that the Board authorize the General Manager to enter into a six-month Professional Services Agreement with Lewis Brisbois Bisgaard & Smith LLP, effective March 23, 2018 – the date on which the Board appointed the firm as IRWD's general counsel. The proposed contract term would run from March 23, 2018, until September 30, 2018, at which time the Board will evaluate the general counsel's performance and may consider extending the term of the contract.

The recommended not-to-exceed value of the agreement with Lewis Brisbois is proposed at \$375,000. The proposed not-to-exceed value is based on the hourly rates proposed in Exhibit "A". The number of billable hours estimated for this six-month period include time for the District's new general counsel to build the knowledge base required to provide general legal services to IRWD; the estimated amount of time required to represent, advise, and counsel IRWD with regard to matters related to municipal law, transactional and non-complex issues and rate-setting; and the estimated amount of time required to coordinate with the District's other legal counsel over the next six months. The terms of the agreement would be governed largely by IRWD's Professional Services Agreement being altered only as necessary in order to ensure that the agreement meets the legal requirements for contracts between attorneys and their clients.

Services to be Provided by and Proposed Contract with Alston & Bird:

Alston & Bird currently provides legal services to the District related to complex matters and complex litigation under a letter of engagement. The services, representation, and counsel provided by the firm have been of a good quality. As a result, Alston & Bird is again being proposed as the firm to provide legal services to IRWD related to complex issues and litigation matters. A more complete description of the scope of work along with the hourly rates proposed by the firm are provided in Exhibit "B".

Staff recommends that the Board authorize the General Manager to enter into a variance to the Letter of Engagement with Alston & Bird, establishing a new not-to-exceed value for a 15-month period effective April 1, 2018, and clarifying the scope of work for the firm. The proposed variance term would run from April 1, 2018, until June 30, 2019, at which time the

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Board will evaluate legal counsel's performance and may consider extending the term of the contract.

The recommended not-to-exceed value of the variance with Alston & Bird is proposed at \$1,500,000 without additional authorization from the District. The proposed not-to-exceed value is based on the hourly rates proposed in Exhibit "B", and the estimated amount of time required for legal counsel to represent, advise, and counsel IRWD with regard to complex matters and litigation matters over the next 15 months.

<u>Services to be Provided by and Proposed Contract with Kronick Moskovitz Tiedemann & Girard:</u>

Kronick currently provides legal services to the District related to water resources and policy-related matters under a Professional Services Agreement. The services, representation, and counsel provided by the firm have been of a good quality. As a result, Kronick is again being proposed as the firm to provide legal services to IRWD related to water resources and policy-related matters including matters related to water banking, water transfers, environmental compliance and other regulatory issues. A more complete description of the scope of work and the hourly rates proposed by the firm are provided in Exhibit "C".

Staff recommends that the Board authorize the General Manager to enter into a variance to the Professional Services Agreement with Kronick, establishing a new not-to-exceed value for a 15-month period effective April 1, 2018, and clarifying the scope of work for the firm. The proposed variance term would run from April 1, 2018, until June 30, 2019, at which time the Board will evaluate legal counsel's performance and may consider extending the term of the contract.

The recommended not-to-exceed value of the variance with Kronick is proposed at \$250,000. The proposed not-to-exceed value is based in the hourly rates proposed in Exhibit "C", and estimated amount of time required for legal counsel to represent, advise, and counsel IRWD with regard to water resources and policy-related matters over the next 15 months.

Legal Resource Management:

Under the adopted team approach, staff will provide legal services management and legal service continuity along with having other duties for IRWD. Christine Compton will also serve in this role as an assistant general counsel for the District.

FISCAL IMPACTS:

The total not-to-exceed amount for the one contract and two variances is \$2,125,000. If approved by the Board, the new contract and variances will be charged against the Fiscal Year 2017-2018 and Fiscal Year 2018-2019 Operating Budgets, as appropriate. Legal services related to capital projects will be billed to the capital budgets, as appropriate.

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ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Due to timing, this item was not reviewed by a committee.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH LEWIS BRISBOIS BISGAARD & SMITH LLP FOR GENERAL COUNSEL LEGAL SERVICES FOCUSED ON MUNICIPAL LAW, TRANSACTIONAL AND NON-COMPLEX ISSUES, AND RATE-SETTING WITH A TERM OF MARCH 23, 2018, TO SEPTEMBER 30, 2018, AND A NOT-TO-EXCEED VALUE OF \$375,000 WITHOUT ADDITIONAL AUTHORIZATION FROM THE DISTRICT; AUTHORIZE THE GENERAL MANAGER TO EXECUTE A VARIANCE TO THE LETTER OF ENGAGEMENT WITH ALSTON & BIRD FOR LEGAL SERVICES RELATED TO COMPLEX ISSUES AND LITIGATION WITH A TERM OF APRIL 1, 2018, TO JUNE 30, 2019, AND A NOT-TO-EXCEED VALUE OF \$1,500,000; AND AUTHORIZE THE GENERAL MANAGER TO EXECUTE A VARIANCE TO THE PROFESSIONAL SERVICES AGREEMENT WITH KRONICK MOSKOVITZ TIEDEMANN & GIRARD FOR LEGAL SERVICES RELATED TO WATER RESOURCES AND POLICY MATTERS AND ISSUES WITH A TERM OF APRIL 1, 2018, TO JUNE 30, 2019, AND A NOT-TO-EXCEED VALUE OF \$250,000.

LIST OF EXHIBITS:

- Exhibit "A" Description of the Scope of Work, Select Contract Terms, and Proposed Hourly Rates for the Proposed Professional Services Agreement with Lewis Brisbois Bisgaard & Smith LLP
- Exhibit "B" Description of the Scope of Work and Proposed Hourly Rate for Alston & Bird
- Exhibit "C" Description of the Scope of Work and Proposed Hourly Reate for Kronick Moskovitz Tiedemann & Girard

EXHIBIT "A"

DESCRIPTION OF THE SCOPE OF WORK, SELECT CONTRACT TERMS, AND PROPOSED HOURLY RATES FOR THE PROPOSED PROFESSIONAL SERVICES AGREEMENT WITH LEWIS BRISBOIS BISGAARD & SMITH LLP

Summary of Proposed Scope of Work:

Lewis Brisbois Bisgaard & Smith LLP (Lewis Brisbois) will provide general counsel legal services and representation to IRWD and its subsidiaries, and other affiliates. The firm will perform the work, duties, and responsibilities consistent with the position of general counsel for IRWD and its subsidiaries and other affiliates with an understanding that the firm's roles as general counsel will be to:

- 1. Provide expert legal advice to IRWD and its subsidiaries and other affiliates;
- 2. Independently represent IRWD and its subsidiaries and other affiliates in a variety of matters and forums; and
- 3. Develop and implement proactive legal strategies to position IRWD and its subsidiaries and other affiliates to best meet its legal, regulatory, and policy objectives.

The scope of the general counsel services provided by Lewis Brisbois to IRWD will consist of a broad range of legal services including regulatory and public policy tracking, interpretation, advice, counsel, legal representation and other services with respect to a variety of legal areas such as:

A. TYPICAL AREAS OF MUNICIPAL LAW, INCLUDING:

- 1. Agenda and Agenda Item Review;
- 2. Board Meetings;
- 3. Basic CEQA and Other Environmental Document Review;
- 4. Brown Act and Open Meeting Compliance;
- 5. Claims Processing;
- 6. Collections:
- 7. Cortese-Knox-Hertzberg Local Government Reorganization Act;
- 8. Election Procedures and Challenges;
- 9. Fair Political Practices Commission Regulations and Political Reform Act;
- 10. Joint Powers Authorities;
- 11. Non-complex Litigation;
- 12. Ordinance Creation and Adoption;
- 13. Public Contracting and Prevailing Wage;
- 14. Public Records Act;
- 15. Public Works Bidding;

- 16. Real Property;
- 17. Records Retention and Destruction;
- 18. Review of Contracts and Other Legal Documents; and
- 19. Tort Claims.

B. LAWS AND REGULATIONS GOVERNING CALIFORNIA WATER DISTRICTS, INCLUDING:

- 1. California Government Code;
- 2. California Health and Safety Code;
- 3. California Water Code;
- 4. California Water District Code;
- 5. Clean Water Act;
- 6. Porter-Cologne Water Quality Control Act;
- 7. Sustainable Groundwater Management Act;
- 8. Safe Drinking Water Act;
- 9. Urban Water Management Planning Act; and
- 10. Other Water and Wastewater Laws and Regulations.

C. <u>Laws and Regulations Related to Water and Sewer Service Rate</u> Setting, Including:

- 1. Case law related to water and sewer service rates;
- 2. Proposition 26; and
- 3. Proposition 218.

D. COORDINATION AND MANAGEMENT OF SPECIAL COUNSEL

Select Contract Terms:

The following terms are proposed for inclusion in the contract with Lewis Brisbois:

- 1) General counsel would physically attend Board meetings and, when requested, the Board's committee meetings.
- 2) General counsel would develop and facilitate the implementation of a proactive legal strategy to better position IRWD to meet its legal, regulatory and policy objectives;
- 3) General counsel would minimize potential conflicts of interest and prioritize representation of IRWD and its subsidiaries and other affiliates within her workload;
- 4) General counsel would quickly obtain a heightened familiarity with IRWD's legal needs and day-to-day operations;
- 5) Lewis Brisbois will not staff any matters or work by others members of the firm not serving in the general counsel or assistant general counsel role unless the District has

consent to the use of the staff.

Proposed Hourly Rates:

Claire Hervey Collins: \$335.00 per hour

Other Partners: \$300.00 per hour

Associates: \$265.00 per hour

Paralegals & Law Clerks: \$145.00 per hour

Word Processing \$35.00 per hour

EXHIBIT "B"

DESCRIPTION OF THE SCOPE OF WORK AND PROPOSED HOURLY RATES FOR THE PROPOSED VARIANCE WITH ALSTON & BIRD

Summary of Proposed Scope of Work:

Alston & Bird will provide legal services and representation to IRWD and its subsidiaries, and other affiliates. The firm will perform the work, duties, and responsibilities consistent with the position of special counsel for IRWD and its subsidiaries and other affiliates with an understanding that the firm's roles as special counsel will be to:

- 1. Provide expert legal advice to IRWD and its subsidiaries and other affiliates;
- 2. Independently represent IRWD and its subsidiaries and other affiliates in a variety of matters and forums; and
- 3. Develop and implement proactive legal strategies to position IRWD and its subsidiaries and other affiliates to best meet its legal, regulatory, and policy objectives.

The scope of the legal counsel services provided by Alston & Bird to IRWD will consist of a broad range of legal services including interpretation, advice, counsel, legal representation and other services with respect to complex issues and litigation including matters related to the California Water District Code, construction, public benefit corporations, public works bidding and contract disputes, complex tort claims, Irvine Lake, water rights, complex regulatory matters and other complex matters.

Proposed Hourly Rates:

Maximum Blended Rate for Senior Partners:

\$585.00 per hour

Maximum Blended Rate for Non-Senior Partners: \$520.00 per hour

Maximum Blended Rate for Associates:

\$435.00-\$450.00 per hour

Alston & Bird has agreed to evaluate a volume discount on a case-by-case basis for complex litigation services, and to primarily use associates on matters that do not require Partner attention in order to reduce the District's fees. On matters where associates are providing the majority of the service, a Partner would be assigned to provide oversight of the work and to address any District concerns. This management would be provided free of charge. Additionally, all rates are subject to an annual 3% increase.

EXHIBIT "C"

<u>DESCRIPTION OF THE SCOPE OF WORK AND PROPOSED HOURLY RATES FOR THE PROPOSED VARIANCE WITH KRONICK MOSKOVITZ TIEDEMANN & GIRARD</u>

Summary of Proposed Scope of Work:

Kronick Moskovitz Tiedemann & Girard (Kronick) will provide legal services and representation to IRWD and its subsidiaries, and other affiliates. The firm will perform the work, duties, and responsibilities consistent with the position of special counsel for IRWD and its subsidiaries and other affiliates with an understanding that firm's roles as special counsel will be to:

- 1. Provide expert legal advice to IRWD and its subsidiaries and other affiliates;
- 2. Independently represent IRWD and its subsidiaries and other affiliates in a variety of matters and forums; and
- 3. Develop and implement proactive legal strategies to position IRWD and its subsidiaries and other affiliates to best meet its legal, regulatory, and policy objectives.

The scope of the legal counsel services provided by Kronick to IRWD will consist of a broad range of legal services including interpretation, advice, counsel, legal representation and other services with respect to complex issues and litigation including matters related to water resources and policy matters and issues. Water resources and policy matters and issues includes matters and issues such as water banking; water transfers and exchanges; the Sustainable Groundwater Management Act; environmental compliance; energy management and power purchase agreements; and other similar environmental and regulatory matters with which IRWD requires legal assistance.

Proposed Hourly Rates for 2018:

Eric Robinson:

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Scott Morris:	\$340.00 per hour
Hanspeter Walter	\$335.00 per hour
Maggie Stern	\$325.00
Stanley Powell:	\$310.00 per hour
Holly Roberson	\$275.00

\$340.00 per hour

Rebecca Harms \$250.00

Andreas Booher \$250.00

Other Shareholders/Of Counsel/Senior Counsel: \$300.00-\$525.00 per hour

Senior Associates: \$245.00-\$395.00 per hour

Associate Attorneys: \$210.00-\$300.00 per hour

Paralegals: \$100.00-\$170.00 per hour

Law Clerk/Document Clerk: \$100.00-\$170.00 per hour

Proposed Hourly Rates for 2019:

Eric Robinson: \$350.00 per hour

Scott Morris: \$350.00 per hour

Hanspeter Walter \$345.00 per hour

Maggie Stern \$335.00

Stanley Powell: \$330.00 per hour

Holly Roberson \$285.00

Rebecca Harms \$260.00

Andreas Booher \$260.00

Other Shareholders/Of Counsel/Senior Counsel: \$300.00-\$525.00 per hour

Senior Associates: \$245.00-\$395.00 per hour

Associate Attorneys: \$210.00-\$300.00 per hour

Paralegals: \$100.00-\$170.00 per hour

Law Clerk/Document Clerk: \$100.00-\$170.00 per hour