

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

November 28, 2011

PLEDGE OF ALLEGIANCE

CALL TO ORDER

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

ROLL CALL

Directors Reinhart, Matheis, Swan, Withers and President LaMar

NOTICE

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

COMMUNICATIONS TO THE BOARD

1. A. Written:

B. Oral: Mrs. Joan Irvine Smith relative to the Dyer Road Wellfield.

2. ITEMS RECEIVED TOO LATE TO BE AGENDIZED

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

PRESENTATION

3. PARTNER COMMENDATION

In celebration of the District's 50th anniversary, the IRWD Board of Directors will recognize key "Partners in Service". This evening the Board will present a Certificate of Commendation to Ms. Lyn McAfee, Executive Director of the Nature Reserve of Orange County.

PUBLIC HEARING Next Resolution No. 2011-50 Next Ordinance No. 2011-1

4. ORDINANCE AMENDING REGULATIONS FOR WASTEWATER DISCHARGES TO IRWD SEWERAGE FACILITIES TRIBUTARY TO SOCWA – SECOND READING AND ADOPTION

Recommendation:

1. Open the Hearing.
2. Inquire of the Secretary how the hearing was noticed.
3. Receive and file the affidavit of posting and proof of publication.
4. Inquire of the Secretary if there have been any written communications.
5. Request report from the Director of Water Quality.
6. Hear any persons who wish to speak relative to an ordinance adopting amended regulations for the discharge of wastewater to sewerage facilities of IRWD that are in the South Orange County Wastewater Authority service area – second reading and adoption.
7. Board comments/discussion.
8. Adopt ordinance by title.

Ordinance No. 2011-

CONSENT CALENDAR

Items 5-10

5. MINUTES OF REGULAR BOARD MEETING

Recommendation: That the minutes of the November 14, 2011 Regular Board Meeting be approved as presented.

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

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

7. STRATEGIC MEASURES DASHBOARD

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

8. OCTOBER 2011 FINANCIAL REPORTS

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report and the Monthly Interest Rate Swap Summary for October 2011; approve the October 2011 Disbursement Summary of Warrants Nos. 323976 through 324665, Workers' Compensation distributions, wire transfers, payroll direct deposit ACH payments, payroll withholding distributions and voided checks in the total amount of \$29,379,035.74.

CONSENT CALENDAR – Continued	Items 5-10
9. <u>2011 PROJECT MANUAL</u> Recommendation: That the Board adopt a resolution rescinding Resolution No. 2010-28 and revising standard form construction contract documents.	Reso. No. 2011-
10. <u>UPCOMING PROJECTS STATUS REPORT</u> Recommendation: Receive and file.	
WORKSHOPS	
11. <u>WATER DEMAND FACTOR STUDY</u> Recommendation: Receive and file.	
12. <u>UPDATE ON RETIREMENT AND HEALTH BENEFITS STUDY</u> Recommendation: Receive and file.	

OTHER BUSINESS

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

- 13. A. General Manager's Report

OTHER BUSINESS - Continued

13. B. Directors' Comments

1)

2)

3)

4)

5)

C. Closed Session: (1) Anticipated litigation – significant exposure to litigation pursuant to Government Code Section 54956.9(b) (one or more potential cases) – Conference with Legal Counsel), and (2) Anticipated litigation – initiation of litigation pursuant to Government Code Section 54956.9(c) (one or more potential cases) – Conference with Legal Counsel).

D. Adjourn.

* * * * *

Availability of agenda materials: Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the Irvine Ranch Water District Board of Directors in connection with a matter subject to discussion or consideration at an open meeting of the Board of Directors are available for public inspection in the District's office, 15600 Sand Canyon Avenue, Irvine, California ("District Office"). If such writings are distributed to members of the Board less than 72 hours prior to the meeting, they will be available from the District Secretary of the District Office at the same time as they are distributed to Board Members, except that if such writings are distributed one hour prior to, or during, the meeting, they will be available at the entrance to the Board of Directors Room of the District Office.

The Irvine Ranch Water District Board Room is wheelchair accessible. If you require any special disability-related accommodations (e.g., access to an amplified sound system, etc.), please contact the District Secretary at (949) 453-5300 during business hours at least seventy-two (72) hours prior to the scheduled meeting. This agenda can be obtained in alternative format upon written request to the District Secretary at least seventy-two (72) hours prior to the scheduled meeting.

November 28, 2011

Prepared by: C. Beck

Submitted by: J. Hills/D. Pedersen *DWP.*

Approved by: Paul Cook *[Signature]*

PUBLIC HEARING

ORDINANCE AMENDING REGULATIONS FOR WASTEWATER DISCHARGES TO IRWD SEWERAGE FACILITIES TRIBUTARY TO SOCWA SECOND READING AND ADOPTION

SUMMARY:

The current Irvine Ranch Water District (IRWD) regulations to control the discharge of industrial waste to IRWD sewerage facilities tributary to the South Orange County Wastewater Authority (SOCWA) were originally adopted by the Los Alisos Water District (LAWD) in 1996. Periodic amendments to these regulations are needed to incorporate the requirements of new state and federal pretreatment regulations and to address changes in administrative procedures. The first reading and introduction of an Ordinance to amend the regulations were completed at the November 14, 2011 Board meeting. Staff recommends that the Board conduct a public hearing, complete the second reading, and adopt the Ordinance.

BACKGROUND:

IRWD is required by state and federal laws and regulations to control the discharge of non-domestic wastewater to its collection and treatment systems to prevent pollutants from upsetting the treatment systems or passing through to the environment. To comply with these requirements, IRWD retained the Pretreatment and Source Control Program (Program) that was established by LAWD through Ordinance No. 96-12-1, for the portions of its wastewater collection and treatment systems that are tributary to SOCWA. IRWD adopted Resolution No. 2001-7 on January 22, 2001, to affirm its intention to retain the Program in effect following the IRWD-LAWD consolidation.

Periodic amendments to the Program are needed to incorporate the requirements of new state and federal pretreatment regulations and to address changes in administrative procedures. IRWD recently worked cooperatively with SOCWA to incorporate the necessary changes to the Program. Exhibit "A" provides a draft Ordinance consisting of the updated Program provisions for the portions of IRWD's wastewater collection and treatment systems that are tributary to SOCWA. The proposed revisions to the Program are summarized in Exhibit "B".

The Ordinance will repeal Ordinance No. 96-12-1 and amend regulations for the discharge of wastewater to sewerage facilities of IRWD that are in the SOCWA service area. Adoption of the Ordinance is a two-step process that requires: (1) a first reading and introduction, which were completed at the November 14, 2011 Board meeting, and (2) a public hearing, second reading and adoption.

FISCAL IMPACTS:

The Program is already being administered and the proposed revisions are not expected to result in a significant fiscal impact to IRWD.

ENVIRONMENTAL COMPLIANCE:

The adoption of the Ordinance is categorically exempt from the California Environmental Quality Act pursuant to the California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15307 and 15308, which provide exemptions for actions by regulatory agencies for protection of natural resources and the environment.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on October 18, 2011.

OUTLINE OF PROCEEDINGS

- President: Declare this to be the time and place for the hearing on the Ordinance.
- President: Request the Secretary to report the manner by which the Notice of Hearing was given.
- Secretary: The Notice of this hearing was published in the Orange County Register on November 14, 2011 and was posted on November 14, 2011 within the IRWD service area tributary to the South Orange County Wastewater Authority service area. The notice was also posted in the District office on November 14, 2011. The Secretary presents an Affidavit of Posting and Proof of Publication for the Board to receive and file.
- Board: RECOMMENDED MOTION: RECEIVE AND FILE THE AFFIDAVIT OF POSTING THE PROOF OF PUBLICATION PRESENTED BY THE SECRETARY.
- President: Inquire of the Secretary whether there have been any written communications.
- Secretary: Respond.
- President: Request a report from the Director of Water Quality.
- Dir. of Water Quality: Report and describe the proposed revisions and indicate that the clarifications and revisions to the Ordinance are summarized in Exhibit "B".

President: Inquire whether anyone is present who wishes to address the Board concerning the amended Ordinance.

Inquire whether there are any comments or questions from members of the Board of Directors.

RECOMMENDATION:

(1) THAT THE HEARING BE CLOSED, THAT THE ORDINANCE BE READ BY TITLE ONLY, THAT FURTHER READING OF THE ORDINANCE BE WAIVED.

SECRETARY: Read the title of the proposed ordinance:

ORDINANCE 2011-1

ORDINANCE OF THE BOARD OF DIRECTORS OF IRVINE
RANCH WATER DISTRICT REPEALING ORDINANCE NO. 96-12-1
AND ADOPTING AMENDED REGULATIONS FOR THE DISCHARGE
OF THE WASTEWATER TO SEWERAGE FACILITIES OF THE IRVINE
RANCH WATER DISTRICT THAT ARE IN THE SOUTH ORANGE COUNTY
WASTEWATER AUTHORITY SERVICE AREA.

(2) THAT THE ORDINANCE BE ADOPTED.

LIST OF EXHIBITS:

EXHIBIT "A" – Ordinance

EXHIBIT "B" – Summary of Revisions to Ordinance

EXHIBIT "A"

**IRVINE RANCH WATER DISTRICT
WASTE DISCHARGE PRETREATMENT
AND
SOURCE CONTROL PROGRAM**

An Ordinance Repealing Ordinance No. 96-12-1 and Adopting
Amended Regulations for the Discharge of
Wastewater to Sewerage Facilities of the
Irvine Ranch Water District
that are in the
South Orange County Wastewater Authority Service Area

ORDINANCE
2011-XX

Prepared by the
Industrial Waste Division
South Orange County Wastewater Authority
for the
Irvine Ranch Water District
2010

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THE BOARD OF DIRECTORS OF THE IRVINE RANCH WATER DISTRICT DOES ORDAIN AS FOLLOWS:

**ARTICLE 1
GENERAL PROVISIONS**

101 INTRODUCTION

- A. The Irvine Ranch Water District ("IRWD") was organized in 1961 by authority of the California Water District Law (Section 34000 of the Water Code of the State of California). The IRWD is governed by a five member Board of Directors (Board) elected from the qualified voters in the entire IRWD service area. For the purpose of this ordinance, the IRWD provides water distribution and wastewater collection and treatment services to residential and commercial establishments in the City of Lake Forest area. Wastewater is treated at the IRWD's Los Alisos Wastewater Reclamation Plant. Any unused wastewater is discharged to the ocean via the South Orange County Wastewater Authority's (SOCWA) Aliso Creek Ocean Outfall.
- B. SOCWA is governed by its own Board of Directors with each director representing a member agency (MA). MAs join together in various project committees to construct and operate joint sewerage facilities. The SOCWA Ocean Outfalls are the key facilities in the SOCWA system. Treated wastewater is discharged to the outfalls from SOCWA wastewater treatment plants and the IRWD's Los Alisos Wastewater Reclamation Plant.
- C. SOCWA is the lead agency responsible for the implementation of the provisions contained in this ordinance. The IRWD, a MA of SOCWA may opt to administer and enforce these provisions under SOCWA's oversight, or may contract with SOCWA to have these services provided directly to the IRWD. An interagency agreement has been adopted between the IRWD and SOCWA that defines each agency's duties and responsibilities. This interagency agreement is on file at the IRWD and SOCWA offices.

102 OBJECTIVES

- A. The objectives of this ordinance are to:
 - 1. Ensure compliance with various regulatory agencies and the National Pollutant Discharge Elimination System (NPDES) Requirements.
 - 2. Prevent the introduction of pollutants that may cause interference of sewerage facility operations.
 - 3. Identify the goals, objectives and procedures for complying with federal pretreatment standards.
 - 4. Prevent biosolids contamination.
 - 5. Promote the opportunity to recycle and reclaim wastewaters or biosolids from sewerage facilities.
 - 6. Encourage waste minimization and material substitution by users.
 - 7. Protect sewerage facility employees and the general public who may be affected by wastewater, biosolids and chemical hazards.
 - 8. Encourage the reuse, recycling and reduction of water, wastewater or solids that are discharged to sewerage facilities.
 - 9. Minimize the discharge of volatile organic compounds that could individually or collectively contribute to a decrease in the quality of air emission from sewerage facilities.
 - 10. Establish an effective monitoring program for the control of user discharges to sewerage facilities.
 - 11. Establish an enforcement response plan (ERP).
 - 12. Equitably distribute costs.

102 OBJECTIVES (cont)

13. Prevent the introduction of pollutants into sewerage facilities that may pass through a sewerage facility, inadequately treated, into the receiving waters, or otherwise be incompatible with sewerage facilities.
14. Incorporate the necessary laws and regulations in order to implement and enforce federal, State of California (State), IRWD and SOCWA standards.
15. Seek to identify users that discharge or have the potential to discharge toxic pollutants, non-compatible or excessive amounts of compatible wastes to sewerage facilities.

103 PURPOSE

A. The purpose of this ordinance is to:

1. Provide for the maximum public benefit from the use of IRWD sewerage facilities. This is accomplished by regulating the use of sewerage facilities and wastewater discharges by providing equitable distribution of costs in compliance with applicable state and federal regulations and by providing procedures that will allow the IRWD to comply with requirements placed upon it by other regulatory agencies. Any revenues derived from the application of this ordinance may be used to recover the cost of providing services by the IRWD which includes but are not limited to administration, monitoring, and enforcement.
2. Comply with federal and state regulations which allow the IRWD to meet applicable standards for the final effluent and ocean outfall quality. This ordinance establishes quality and quantity limitations on all wastewater discharges whether or not the discharges adversely affect IRWD's sewerage facilities, processes, ocean outfall effluent quality, or inhibit IRWD's ability to meet its specific discharge limitations. It is the intent of this ordinance to improve the quality of wastewater being received for treatment and to encourage water conservation by all users connected to a sewerage facility. It is the IRWD's intent to discourage the increase in quantity (mass emission) of waste constituents being discharged. This ordinance also imposes pretreatment requirements on the degree of waste authorized to be discharged to the IRWD's sewerage facilities; provides for the issuance of wastewater discharge permits or other controlling mechanism to impose additional case-by-case requirements, as appropriate, and establishes fees and other penalties for noncompliance and/or violation of this ordinance.

104 POLICY

A. The policy of this ordinance is to be:

1. Interpreted in accordance with the definitions set forth in Article 2. The provisions of this ordinance shall apply to the discharge of all wastes carried to IRWD sewerage facilities, and have been liberally construed so as to effectuate the environmental purposes, objectives, and other provisions set forth herein.
2. Committed to wastewater reclamation and reuse in order to provide an alternate source of water supply. The adoption of programs for reclamation through secondary and tertiary wastewater treatment processes may necessitate more stringent quality requirements on wastewater discharges. In the event that more stringent quality requirements are necessary, this ordinance may be amended to reflect those changes.
3. Committed to the beneficial use of biosolids. The implementation of programs to land apply or provide for the marketing and distribution of biosolids may necessitate more stringent quality requirements on waste water discharges. In the event that more stringent quality requirements are necessary, this ordinance may be amended to reflect these changes.
4. Committed to compliance with all applicable state and federal laws including the Clean Water Act in 33 United States Code 1251 et seq. and the general pretreatment regulations described in 40 CFR 403.

105 APPLICABILITY

This ordinance applies to users within the portion of the IRWD service area that discharges wastewater to facilities served by the SOCWA wastewater collection, treatment and disposal facilities and to users outside the IRWD service area who, by wastewater discharge permit or other controlling mechanism, make use of IRWD sewerage facilities that discharge wastewater to facilities served by the SOCWA wastewater collection, treatment and disposal facilities. IRWD also provides sewer service to the portions of its service area that are

served by IRWD's Michelson Water Reclamation Plant and/or regional facilities of the Orange County Sanitation District. This ordinance does not apply to users within or outside the IRWD service area who make use of IRWD sewerage facilities that discharge wastewater to facilities served by IRWD's Michelson Water Reclamation Plant and/or the facilities of the Orange County Sanitation District.

106 AVAILABILITY OF SEWERAGE FACILITIES

If capacity in a sewerage facility as a whole is not available, IRWD may restrict discharge of existing users until sufficient capacity can be made available. The IRWD may refuse immediate service to new users where their proposed quality or quantity of wastewater is unacceptable to the available sewerage facilities.

107 NOTICE TO EMPLOYEES

- A. The IRWD may provide one (1) copy of this ordinance to each user that has received a wastewater discharge permit, upon request.
- B. Users who are issued a wastewater discharge permit may make available to their employees, copies of this ordinance.
- C. Users who are issued a wastewater discharge permit may make copies of it, so as to make it available to all personnel at all times.
- D. A notice may be permanently posted in prominent places advising employees to call the IRWD in the event of an uncontrolled spill or discharge as soon as possible and to submit a report as indicated in section 803 or 804 of this ordinance. The notice shall provide for necessary instruction and information, including but not limited to:
 - 1. IRWD phone numbers.
 - 2. SOCWA phone numbers.
 - 3. Recording the time of the incident.
 - 4. Name and location of user.
 - 5. Type, concentration and volume of the discharge.
 - 6. Corrective action taken.
 - 7. Name of person reporting the incident.

**ARTICLE 2
DEFINITIONS AND ABBREVIATIONS**

201 DEFINITIONS CONTAINED IN PUBLICATION

- A. Unless otherwise defined herein, terms related to water quality shall be defined in the same manner as in the latest edition of Standard Methods for the Examination of Water and Wastewater, published jointly by the American Public Health Association (APHA), The American Water Works Association (AWWA), and the Water Environment Federation (WEF).
- B. The testing procedure for waste constituents and characteristics shall be as described in 40 CFR 136.

202 DEFINITION OF TERMS

- A. Words used in this ordinance in the singular may include the plural and the plural singular. Use of masculine shall mean feminine and the use of feminine shall mean masculine.
- B. The definitions in this ordinance are not intended to narrow the scope of definitions set forth in federal or state regulations. Unless the context specifically indicates otherwise the following terms, or pronouns used in their place, shall be interpreted as follows:
 - 1. Act or "the Act". The Federal Water Pollution Control Act also known as the Clean Water Act (CWA) as well as any amendments, guidelines, limitation or standards promulgated by the EPA pursuant to the Act, (33 USC 1251 et seq).
 - 2. Approval Authority. Refers to the US Environmental Protection Agency (EPA), the California State Water Resources Control Board (SWRCB), or the local California Regional Water Quality Control Board (RWQCB).
 - 3. Baseline Monitoring Report (BMR). A required report for all industrial users subject to a categorical pretreatment standard. A BMR provides information that documents an industrial user's compliance status with all applicable pretreatment standards.
 - 4. Batch Dump. The discharge of pollutants or compatible wastes in a manner or method that is not approved or is prohibited by the IRWD.
 - 5. Best Available Technology (BAT). A level of technology that is based on the very best (state of the art) control and treatment measures that have been developed or are capable of being developed for a particular industrial category.
 - 6. Best Management Practices (BMPs). A set of schedules of activities, prohibitions of practices, maintenance procedures, operating procedures and other management practices used to control a user or a group of similar users' discharge to sewerage facilities. BMPs may include, but are not limited to treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage.
 - 7. Best Practicable Technology (BPT). A level of technology represented by the average of the best existing wastewater treatment performance levels within an industrial category.
 - 8. Biochemical Oxygen Demand (BOD). The quantity of oxygen utilized in the biochemical oxidation of organic matter in wastewater using appropriate testing procedure and expressed as a concentration (e.g. mg/L).
 - 9. Biodegradable. A material that can be decomposed by a biological process.
 - 10. Biohazardous Waste. area material that is likely to transmit etiologic agents that cause, or significantly contribute to the cause of, increased morbidity or mortality of human beings as set forth by the State Medical Waste Management Act.

202 DEFINITION OF TERMS (cont)

11. Board. The Board of Directors of the Irvine Ranch Water District (IRWD).
12. Building Sewer. The entire length of private sewage service lateral extending from the building or structure that is connected to a sewerage facility.
13. By-Pass. Any intentional diversion of waste streams around any portion of a user's pretreatment equipment.
14. Categorical Industrial User (CIU). A user subject to a federal categorical pretreatment standard or categorical standard
15. Chain of Custody. A document used to ensure the integrity of a sample, which includes a record of each person involved in the possession of a sample, securing the sample, and final disposal of the sample.
16. Chemical Oxygen Demand (COD). The quantity of oxygen required to oxidize all compounds, both organic and inorganic, in wastewater using the appropriate testing procedure and expressed as a concentration (e.g. mg/L).
17. Class I User. Any user determined by the IRWD that meets the criteria of significant industrial user (SIU) as described in 40 CFR 403.
18. Class II User. Any user determined by the IRWD that is not a SIU and may discharge pollutants or non-compatible wastes which may impact sewerage facilities.
19. Class III User. Any user determined by the IRWD that is not a SIU and may discharge conventional pollutants or compatible wastes, which may impact sewerage facilities.
20. Class IV User. Any user determined by IRWD that may discharge or is proposing to discharge special wastewater that may contain toxic or conventional pollutants, or non-compatible or compatible wastes which may impact sewerage facilities.
21. Code of Federal Regulations (CFR). The code of the Federal Government of the United States of America, which contains all of the federal regulations including environmental regulations.
22. Company Authorized Representative (CAR). An individual designated by the user, who is responsible for signing all submittals to the IRWD and who meets the criteria as described in 40 CFR 403.
23. Compatible Waste. Waste that does not contain toxic pollutants or non-compatible wastes. This may include a combination of, but not limited to, conventional pollutants or other wastes that sewerage facilities are designed to accept and/or remove. Compatible wastes are non-compatible when discharged in quantities that have an adverse effect on sewerage facilities or NPDES Permit, or when discharged in qualities or quantities violating any National Pretreatment Standard or other discharge requirement or as determined by the IRWD.
24. Composite Sample. A collection of individual samples obtained at intervals based on an increment of either flow or time. The resulting mixture, a composite sample, forms a representative sample of the wastestream discharged during the sample period.
25. Control Authority (CA). The Irvine Ranch Water District (IRWD) and/or the South Orange County Wastewater Authority (SOCWA).
26. Conventional Pollutants. Those pollutants which are designated pursuant to section 304(a)(4) of the Act which include, biochemical oxygen demand (BOD), total suspended solids (TSS), fecal coliform, pH, and oil and grease.
27. Daily Maximum. The arithmetic average of all effluent samples for a pollutant collected during a calendar day.

202 DEFINITION OF TERMS (cont)

28. Daily Maximum Limit. The maximum allowable discharge limit of a pollutant during a calendar day. Where Daily Maximum Limits are expressed in units of mass, the daily discharge is the total mass discharged over the course of the day. Where Daily Maximum Limits are expressed in terms of a concentration, the daily discharge is the arithmetic average measurement of the pollutant concentration derived from all measurements taken that day.
29. Discharger. Any entity which discharges or causes a discharge of wastewater that is directly or indirectly discharged to sewerage facilities. May be interchangeable with indirect discharger, industrial user, permittee, person or user.
30. Discharge Requirements. The requirements of federal, state or local public agencies having jurisdiction over the effluent discharged sewerage facilities or the environment.
31. Disposal. A controlled release to sewerage facilities or to the environment.
32. Effluent. Usually water or wastewater discharged partially or completely treated or untreated from an industrial user or treatment plant, or part thereof.
33. Enforcement. A series of progressively more stringent actions used to seek compliance with federal, state or local laws, regulations, limitations and this ordinance. Any enforcement may include monetary fees, fines or penalties.
34. Environmental Protection Agency (EPA). The U. S. Environmental Protection Agency or, where appropriate, the Regional Water Management Division Director, the Regional Administrator, or other duly authorized official of said agency.
35. Existing Source. Any source of discharge that is not a "New Source".
36. Fee. Any amount assessed to a discharger for the use of any portion of a sewerage facility which shall include, but not be limited to, connection fees, monthly sewer service, wastewater discharge permit, excess capacity fee, industrial wastewater treatment, laboratory testing, industrial inspection, and monitoring fees.
37. Flow Monitoring Equipment. Equipment and/or structures provided at the user's sole expense to measure, totalize, record and/or sample incoming water to the user's site or the wastewater discharged to sewerage facilities.
38. General Manager. The individual duly designated by the Board of the IRWD to administer this ordinance.
39. Grab Sample. A sample collected from a wastestream without regard to the flow in the wastestream and over a period of time not to exceed fifteen (15) minutes..
40. Grease. Includes, but is not limited to fats, oils and grease (FOG), waxes and other non-volatile materials as determined by the appropriate testing procedures.
41. Groundwater. Water that is beneath the surface of the earth.
42. Hazardous Waste. Any waste that is potentially damaging to of the environment or a person's health due to toxicity, ignitability, corrosivity, chemical reactivity or other reasons.
43. Industrial User. Any site that discharges industrial wastewater to sewerage facilities. May be interchangeable with discharger, indirect discharger, permittee or user.
44. Industrial Wastewater. All liquid-carried wastes or wastewater of the community, excluding domestic wastewater, and may include all wastewater from any producing, manufacturing, processing, agricultural, or other operation or location.

202 DEFINITION OF TERMS (cont)

45. Inspector. A person authorized by the General Manager to inspect and/or monitor any industrial user's discharge or anticipated discharge to any sewerage facility.
46. Interference. A discharge that, alone or in conjunction with a discharge or discharges from other sources, inhibits or disrupts any sewerage facilities, any treatment processes or operations or any sludge processes, use or disposal and therefore, is a cause of violation of the IRWD's or SOCWA's NPDES permits (including an increase in the magnitude or duration of a violation) or prevents lawful biosolids or treated effluent use or disposal.
47. Interjurisdictional Agreements (Also referred to as Interagency Agreements). An agreement between SOCWA and any individual or combination of MA's or other local sewerage agency that defines the authority and responsibility to implement the Waste Discharge Pretreatment and Source Control Program and to enforce the regulations contained in this ordinance within the individual and/or combination of MAs, or any other local sewerage agency's service area.
48. Irvine Ranch Water District (IRWD). The agency that is responsible for the adoption of this ordinance and is a MA of SOCWA.
49. Local Limits. A set of specific discharge limits developed and enforced by the IRWD and/or SOCWA upon a user's site in order to implement the general and specific discharge prohibitions as described in 40 CFR 403.
50. Local Sewering Agency. Any public agency or private company responsible for the collection, treatment or disposal of wastewater to sewerage facilities that is duly authorized under the laws of the State to construct and/or maintain sewerage facilities.
51. Lower Explosive Limit (LEL). The point where an explosive gas in an area of atmosphere that is at a sufficient concentration as to result in an explosion if a sufficient ignition source is present.
52. Mass Emission Rate. The weight of material discharged to sewerage facilities during a given time interval. Unless otherwise specified, the mass emission rate shall mean pounds per day of a particular constituent or combinations of constituents.
53. May. Permissive or discretionary.
54. Member Agency (MA). Any one, combination, or all of the individual districts or cities which are members of SOCWA. They are: City of Laguna Beach (CLB), City of San Clemente (CSC), City of San Juan Capistrano (CSJC), El Toro Water District (ETWD), Emerald Bay Service District (EBSD), Irvine Ranch Water District (IRWD), Moulton Niguel Water District (MNWD), Santa Margarita Water District, (SMWD), South Coast Water District, (SCWD) and the Trabuco Canyon Water District (TCWD).
55. Monthly Average. The sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during the month.
56. National Pollutant Discharge Elimination System (NPDES) Permit. The document issued for the control of discharges to surface waters of the United States as detailed in Section 402 of the Act.
57. National Pretreatment Standards. Includes the following terms: "Prohibited Discharges", "General Prohibitions", "Specific Prohibitions", "Local Limits", "Categorical Standards", "Categorical Pretreatment Standards", "Pretreatment Standards" and "Standards". These terms apply to any pollutant discharge regulations that are promulgated by the EPA in accordance with Section 307 (b) and (c) of the Act that limits and/or prohibits the wastewater discharged by users into a sewerage facility.
58. New Source. Those sources that are new as defined by 40 CFR 403.
59. Non-Compatible Waste. Waste that contains toxic or non-compatible pollutants that may pass-through or cause interference if discharged to sewerage facilities.

202 DEFINITION OF TERMS (cont)

60. Non-industrial Wastewater Discharge (NIWD) Form. A form issued users that are considered to have wastewater of no concern discharging to sewerage facilities. This form may contain BMP's.
61. Normal Working Day. Any period of time during which production or operation is taking place or any period which discharge to sewerage facilities is occurring..
62. North America Industry Classification System (NAICS). An industry classification system that groups establishments into industries based on the activities which they are primarily engaged.
63. Nuisance. Anything which may be injurious to health or is indecent or offensive to the senses or an obstruction to the free use of property so as to interfere with the comfort or enjoyment of life or property or which affects at the same time an entire community or neighborhood or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.
64. Ordinance. The document entitled "An Ordinance of Regulations for the Discharge of Wastewater to Sewerage Facilities of the Irvine Ranch Water District that are in the South Orange County Wastewater Authority Service Area" containing IRWD's requirements, conditions and limitations for discharging to sewerage facilities, as may be amended and modified.
65. Pass Through. A discharge from a user which exits sewerage facilities into waters of the United States in quantities or concentrations which, alone or in conjunction with any discharge from other sources, is a cause of a violation of any requirement of IRWD's or SOCWA's NPDES Permits, including an increase in the magnitude or duration of a violation.
66. Permittee. A discharger who has received a permit to discharge wastewater into the IRWD's sewerage facilities subject to the requirements and conditions established by the IRWD. May be interchangeable with discharger, indirect discharger, industrial user, person or user.
67. Person. Any individual, partnership, copartnership, firm, company, corporation, association, joint stock company, trust, estate, tenant, lessee, renter, governmental entity, or any other legal entity; or their legal representatives, agents or assigns. This definition includes all federal, state and local government entities. May be interchangeable with discharger, indirect discharger, industrial user, permittee or user.
68. Pesticides. Those compounds classified as such under Federal or State law or regulations including, but not limited to, DDT (dichlorodiphenyltrichloroethane, both isomers), DDE (dichlorodiphenylethylene), DDD (dichlorodiphenyldichloroethane), Aldrin, Benzene Hexachloride (alpha, beta and gamma isomers), Chlordane, Endrin, Endrin aldehyde, TCDD (2,3,7,8-tetrachlorodibenzo-p-dioxin), Toxaphene, Alpha-endosulfan, Beta-endosulfan, Endosulfan sulfate, Heptachlor, Heptachlor epoxide, Dieldrin Demeton, Guthion, Malathion, Methoxychlor, Merex and Parathion.
69. pH. A measure of the acidity or alkalinity of a solution, expressed in standard units.
70. Pollutant. Any substance, constituent, compound or characteristic of wastewaters on which a discharge limitation may be imposed either by the IRWD, SOCWA, or the regulatory agencies empowered to regulate the IRWD and SOCWA.
71. Polychlorinated Biphenyls (PCBs). Those compounds classified as such under Federal and State law or regulations including, but not limited to Aroclors 1016, 1221, 1228, 1232, 1242, 1248, 1254, 1260 and 1262.
72. Pretreatment. The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of introducing such pollutants into sewerage facilities. This reduction, elimination or alteration of pollutants can be obtained by physical, chemical, or biological process, by process changes or other means except as described by 40 CFR 403.
73. Pretreatment Equipment. Any equipment, structures or devices used for the treatment or flow limitation of industrial wastewater prior to discharge to sewerage facilities.

202 DEFINITION OF TERMS (cont)

74. Pretreatment Requirements. Any substantive or procedural requirement related to pretreatment imposed on a user, other than a national pretreatment standard.
75. Prohibited Discharges. Any prohibitions against the discharge of certain substances; these prohibitions appear in Article 5.
76. Public Agency. The State and any city, county, district, agency, other local authority or public body of or within this state.
77. Rainwater. Water resulting from precipitation which directly falls upon any surface.
78. Regulatory Agencies. Those Agencies having jurisdiction over the operation of the IRWD, including, but not limited to, the following:
 - a. United States Environmental Protection Agency (EPA).
 - b. State Water Resources Control Board (SWRCB).
 - c. Regional Water Quality Control Board (RWQCB).
 - d. South Coast Air Quality Management District (SCAQMD).
 - e. Department of Health Services (DOHS).
 - f. California Environmental Protection Agency (Cal-EPA).
79. Representative Sample Point. A location set forth in the user's wastewater discharge permit or other control mechanism from which wastewater can be collected that is as nearly identical in content and consistency as possible to that of the entire flow of wastewater being sampled. For categorical users, this point shall be at the end of each regulated process, and for all other users shall be determined on a case-by-case basis.
80. Resource Conservation and Recovery Act (RCRA). The RCRA Act of 1976 (42 U.S.A. 6901, et seq.) to implement the conservation and recovery of used or spent resources and as amended.
81. Routine Sampling. Any sampling conducted by the IRWD to verify compliance of a user's discharge to sewerage facilities. Sampling may consist of either grab or composite samples or a combination of both.
82. Sampling Equipment. Equipment or structure provided at the user's sole expense for the IRWD or the user to measure and record wastewater constituents, collection of samples or provide access to plug or terminate the discharge.
83. Scum. Any layer of matter or combination of air and matter that forms on or rises to the surface of a liquid or body of water.
84. Sewage. Wastewater.
85. Sewerage Facilities. Any and all systems used for collecting, conveying, pumping, reclamation, recycling, reuse, storage, transportation, treatment or disposal of sewage, industrial waste of a liquid nature, wastewater, sludge or biosolids that are owned and/or operated by the IRWD, SOCWA or other public agency and which discharge wastewater to systems operated by SOCWA. This definition includes, but is not limited to, publicly owned treatment works (POTW's) as defined by Section 212 of the Act (33 U.S.C. Section 1292), public sewers, trunk lines, sewer mains, wet wells, treatments plants and ocean outfalls which are owned by the IRWD and discharge wastewater to systems operated by SOCWA, or are owned by SOCWA.
86. Shall. Mandatory.

202 DEFINITION OF TERMS (cont)

87. Significant Industrial User (SIU). A user as defined by 40 CFR 403, except as provided in paragraphs c and d of this definition, which includes the following:
- a. An industrial users subject to categorical pretreatment standards; or
 - b. An industrial user that: discharges an average of twenty-five (25,000) gallons per day or more of process wastewater to the IRWD or SOCWA (excluding sanitary, noncontact cooling water, and boiler blowdown wastewater); contributes a process wastestream which makes up five percent (5%) or more of the average dry weather hydraulic or organic capacity of IRWD's or SOCWA's sewerage facilities; or is designated as such by the IRWD on the basis that the industrial user has a reasonable potential for adversely affecting the IRWD's or SOCWA's operation or for violating any pretreatment standard or requirement.
 - c. The IRWD may determine that an industrial user subject to categorical pretreatment standards is a Non-Significant Categorical Industrial User (NSCIU) rather than a Significant Industrial User on a finding that the industrial user never discharges more than 100 gallons per day (gpd) of total categorical wastewater (excluding sanitary, noncontact cooling and boiler blowdown wastewater, unless specifically included in the Pretreatment Standard) and the following conditions are met:
 - i. The industrial user, prior to IRWD's finding, has consistently complied with all applicable categorical pretreatment standards and requirements;
 - ii. The industrial user annually submits the certification statement required in 40 CFR 403.12(q) together with any additional information necessary to support the certification statement; and
 - iii. The industrial user never discharges any untreated concentrated wastewater.
 - d. Upon a finding that an industrial user meeting the criteria in paragraph b above of this definition has no reasonable potential for adversely affecting IRWD's operation or for violating any pretreatment standard or requirement, IRWD may at any time, on its own initiative or in response to a petition received from a industrial user, and in accordance with 40 CFR 403.8(f)(6), determine that such industrial user should not be considered a significant industrial user.

202 DEFINITION OF TERMS (cont)

88. Significant Non-Compliance. A violation by a SIU (or any IU which violates paragraphs c, d or h of this definition) as described in 40CFR 403.8(f)(2)(viii)(A-H) which meets one or more of the following criteria:
- a. Chronic violations of wastewater discharge limits, defined here as those in which sixty-six percent (66%) or more of all of the measurements taken for the same pollutant parameter during a six (6) month period exceed (by any magnitude) a numeric pretreatment standard or requirement, including instantaneous limits, as described in 40 CFR 403.3(l);
 - b. Technical Review Criteria (TRC) violations, defined here as those in which thirty-three percent (33%) or more of all of the measurements taken for the same pollutant parameter during a six (6) month period equals or exceeds the product of the numeric pretreatment standards or requirement including instantaneous limits, as described in 40 CFR 403.3(l) multiplied by the applicable TRC (TRC = 1.4 for BOD, TSS, fats, oil and grease, and 1.2 for all other pollutants except pH);
 - c. Any other violation of a pretreatment standard or requirement as defined in 40 CFR 403.3(l) (daily maximum, long-term average, instantaneous limit, or narrative standard) that IRWD determines has caused, alone or in combination with other discharges, interference or pass through, including endangering the health of IRWD or SOCWA personnel or the general public;
 - d. Any discharge of a pollutant that has caused imminent endangerment to human health, welfare or to the environment or has resulted in the IRWD's exercise of its emergency authority under 40 CFR 403.8(f)(1)(vi)(B) to halt or prevent such a discharge;
 - e. Failure to meet, within ninety (90) days after the scheduled date, a compliance schedule milestone contained in a wastewater discharge permit, other control mechanism or enforcement order for starting construction, completing construction, or attaining final compliance;
 - f. Failure to provide within forty-five (45) days after the due date, required reports, including, but not limited to baseline monitoring reports, 90-day compliance reports, periodic self-monitoring reports and reports on compliance with compliance schedules;
 - g. Failure to accurately report noncompliance;
 - h. Any other violation or group of violations, which may include a violation of Best Management Practices, which IRWD determines will adversely affect the operation or implementation of the local pretreatment program.
89. Sludge. Any solid, semi-solid or liquid decant, subnate, or supernate from an industrial manufacturing process, utility service or pretreatment equipment.
90. Slug Discharge. A discharge that may exceed the standards and prohibitions contained in Article 5 of this ordinance and significantly exceeds the usual industrial flow or pollutants loading, either mass concentration..
91. Solvent. Any substance that is used to dissolve another substance in it.
92. South Orange County Wastewater Authority. The Joint Powers Authority (JPA) which is formed by the participating MAs. The MAs individually and/or collectively use SOCWA's sewerage facilities. SOCWA is the holder of the NPDES permits, which states the pretreatment and waste discharge requirements for the sewerage facilities.
93. Spent Solutions. Any concentrated industrial wastewater.
94. Spill Containment. Any protection equipment provided and installed at the user's sole expense to prohibit the discharge of non-compatible wastes to sewerage facilities.

202 DEFINITION OF TERMS (cont)

95. Standard Methods. Procedures described in the current edition of Standard Methods for the Examination of Water and Wastewater, as published jointly by the American Public Health Association, the American Water Works Association and the Water Environment Federation.
96. Stormwater. Any flow occurring during or following any form of natural precipitation, including snowmelt, which runs off, or travels over the ground surface to a drainage area or channel.
97. Street Drainage. Water resulting from surface runoff generated by rainwater, stormwater or other sources.
98. Subsurface Drainage. A method of draining that is situated under the ground (e.g., leachate control system).
99. Surface Runoff. Runoff other than that which is caused by rainfall, stormwater, or street drainage (e.g., car wash runoff, washdown runoff) originating from a user.
100. Total Organic Carbon (TOC). The measure of total organic carbon in domestic or other wastewater as determined by the appropriate testing procedure.
101. Total Suspended Solids. Any insoluble material contained as a component of wastewater and capable of separation from the liquid portion by laboratory filtration as determined by the appropriate testing procedures and expressed in terms of milligrams per liter (mg/L).
102. Toxic Pollutant. Any pollutant or combination of pollutants listed as toxic by the EPA under the provisions of Section 307(a) of the Act or other acts or that can harm human health, aquatic life or the biological treatment processes.
103. Unpolluted Water. Water to which no constituent has been added either intentionally or accidentally.
104. Upset. Any upset that meets the criteria as described in 40 CFR 403.
105. User. Any person or entity which discharges or causes a discharge of wastewater to a sewerage facility, as defined by EPA regulations. May be interchangeable with discharger, indirect discharger, industrial user, permittee or person.
106. Volatile. Natural (plant or animal origin) or synthetic substances that is capable of being evaporated or changed to vapor at relatively low temperatures.
107. Waste. Sewage and any other waste substances, liquid, solid, gaseous or radioactive.
108. Waste Manifest. A receipt which is retained by the generator of hazardous wastes as required by the State or the United States Government pursuant to RCRA or the California Hazardous Materials Act or that receipt which is retained by the generator for recyclable wastes or liquid non-hazardous wastes as required by the IRWD.
109. Wastewater. Liquid and water-carried industrial wastes and sewage from residential dwellings, commercial buildings, industrial and manufacturing, and institutions, whether treated or untreated, which are discharged or permitted to enter sewerage facilities..
110. Wastewater Constituents and Characteristics. The individual chemical, physical, bacteriological, radiological, volume, flow rate and such other parameters that serve to define, classify or measure the quality and quantity of wastewater.
110. Wastewater Discharge (WD) Permit. The form of authorization from the IRWD issued to an industrial user for the discharge of wastewater. This wastewater discharge permit sets forth the limits and conditions under which the industrial user shall be able to discharge wastewater into sewerage facilities.

203 **ABBREVIATION**

A. The following abbreviations shall have the designated meanings:

1.	<u>"BAT"</u>	Best Available Technology	
2.	<u>"BMP"</u>	Best Management Practice	
3.	<u>"BMR"</u>	Baseline Monitoring Report	
4.	<u>"BOD"</u>	Biochemical Oxygen Demand	
5.	<u>"BPT"</u>	Best Practicable Technology	
6.	<u>"CA"</u>	Control Authority	
7.	<u>"CAR"</u>	Company Authorized Representative	
8.	<u>"CFR"</u>	Code of Federal Regulation	
9.	<u>"CIU"</u>	Categorical Industrial Use	
10.	<u>"COD"</u>	Chemical Oxygen Demand	
11.	<u>"CWF"</u>	Combined Wastestream Formula	
12.	<u>"DO"</u>	Dissolved Oxygen	
13.	<u>"EPA"</u>	Environmental Protection Agency	
14.	<u>"ERP"</u>	Enforcement Response Plan	
15.	<u>"FOG"</u>	Fats, Oils and Grease	
16.	<u>"FROG"</u>	Fats, Roots, Oil and Grease	
17.	<u>"gpd"</u>	Gallons per Day	
18.	<u>"gpm"</u>	Gallons per Minute	
19.	<u>"IU"</u>	Industrial User	
20.	<u>"IRWD"</u>	Irvine Ranch Water District	
21.	<u>"lb/day"</u>	Pounds Per Day	
22.	<u>"JPA"</u>	Joint Powers Authority	
23.	<u>"LEL"</u>	Lower Explosive Limit	
24.	<u>"MA"</u>	Member Agency	
25.	<u>"MGD"</u>	Million Gallons Per Day	
26.	<u>"MSDS"</u>	Material Safety Data Sheet	
27.	<u>"NAICS"</u>	North America Industry Classification System	
28.	<u>"NPDES"</u>	National Pollutant Discharge Elimination System	
29.	<u>"NSCIU"</u>	Non-Significant Categorical Industrial User	
30.	<u>"O&G"</u>	Oil and Grease	
31.	<u>"PCBs"</u>	Polychlorinated Biphenyls	
32.	<u>"POTW"</u>	Publicly Owned Treatment Works	
33.	<u>"PSES"</u>	Pretreatment Standards for Existing Sources	
34.	<u>"PSNS"</u>	Pretreatment Standards for New Sources	
35.	<u>"RCRA"</u>	Resource Conservation and Recovery Act	
36.	<u>"RWQCB"</u>	Regional Water Quality Control Board	
37.	<u>"SOCWA"</u>	South Orange County Wastewater Authority	
38.	<u>"SIU"</u>	Significant Industrial User	
39.	<u>"SNC"</u>	Significant Non-Compliance	
40.	<u>"SWRCB"</u>	State Water Resources Control Board	
41.	<u>"TDS"</u>	Total Dissolved Solids	
42.	<u>"TOC"</u>	Total Organic Carbon	
43.	<u>"TOMP"</u>	Toxic Organic Management Plan	
44.	<u>"TRC"</u>	Technical Review Criteria	
45.	<u>"TSS"</u>	Total Suspended Solids	
46.	<u>"TTO"</u>	Total Toxic Organics	
47.	<u>"U.S.C."</u>	United States Code	
48.	<u>"mg/L"</u>	Milligrams per Liter	(0.001)
49.	<u>"ug/L"</u>	Microgram per Liter	(0.000001)
50.	<u>"ng/L"</u>	Nanograms per Liter	(0.000000001)
51.	<u>"pg/L"</u>	Picograms pre Liter	(0.000000000001)

**ARTICLE 3
AUTHORITIES AND POWERS**

301 AUTHORITY

- A. The IRWD is regulated by Agencies of the United States Federal Government and the State under provisions of federal and state law. Federal law requires SOCWA and the IRWD and the state grants the IRWD the authority to regulate and/or prohibit by adoption of ordinances, resolutions, and issuance of wastewater discharge permits or other control mechanisms, the discharge of any waste, directly or indirectly, to SOCWA's or the IRWD's sewerage facilities. That authority includes, but is not limited to, the right to establish local limits, conditions, prohibitions, flow rates, prohibit flows discharged to the IRWD's sewerage facilities, and enforce federal, state and local requirements. This may require the implementation of compliance schedules for the installation of flow monitoring equipment by users and for the IRWD to take all actions necessary to enforce its authority, whether within or outside IRWD's service area, including those users to whom this Ordinance is applicable as specified in Section 105.
- B. The IRWD has the authority under California Health and Safety Codes 5471 and 5474 to prescribe, revise, and collect all regulatory fees and to charge for services and sewerage facilities furnished by the IRWD and/or SOCWA either within or without its service area.
- C. Administration and enforcement of the pretreatment program may be carried out on a daily basis by any individual and/or combination of IRWD personnel as granted by an interjurisdictional agreement under the oversight of SOCWA. However, SOCWA retains the authority to assume, at any time, administrative and enforcement powers of the pretreatment program requirements within the IRWD jurisdiction.
- D. The IRWD shall have the authority to seek compliance with 40 CFR 403, its NPDES permit and the provisions of this ordinance by, but not limited to, the following:
1. Issue WD permits.
 2. Require the installation of pretreatment equipment.
 3. Require the installation of monitoring and/or sampling equipment and/or structures.
 4. Require self-monitoring and reporting of the user's discharge.
 5. Require the implementation of spill containment plans.

302 DELEGATION OF AUTHORITY

Whenever any authority or power is granted to or a duty imposed upon the General Manager, that authority or power may be exercised or that duty may be performed by a person authorized by the General Manager.

303 ENFORCEMENT POWERS

- A. Enforcement action against a user for being in non-compliance with the provision of this ordinance may include, but is not limited to, the following:
1. Issuing a Warning Notice of Non-compliance letter.
 2. Issuing a notice of non-compliance (NON) form.
 3. Issuing a notice of violation (NOV) form.
 4. Issuing an administrative order (AO) which may also include, but are not limited to, the following:
 - a. Probation Order (PO)
 - b. Show Cause Order (SCO)
 - c. Cease and Desist Order (CDO)
 5. Petition the courts for injunction or civil penalties.
 6. Signing criminal complaints.
 7. Suspension or revocation of an issued wastewater discharge permit or other control mechanism.
 8. Termination of services.
 9. Administrative complaints.
- B. The issuance of an enforcement action shall not be a bar against, or a prerequisite for, taking any other enforcement action against the user.

**ARTICLE 4
ADMINISTRATION**

401 IRVINE RANCH WATER DISTRICT (IRWD)

- A. The IRWD may implement pretreatment and source control programs in accordance with federal, state, and SOCWA regulations, the provisions of this ordinance, and any interjurisdictional agreements.
- B. If the IRWD desires to perform its own pretreatment and source control program, it shall do so pursuant to the interjurisdictional agreement with SOCWA, under the oversight of SOCWA.
- C. The IRWD, when operating its own pretreatment and source control program, shall keep SOCWA apprised of all activities on a regular and consistent basis. This may be accomplished by, but not limited to, correspondence, meetings and submittal of periodic reports.
- D. The IRWD shall have the authority to use fees and charges provided for within this ordinance when a user is in non-compliance.
- E. The IRWD shall provide SOCWA any and all information and submittals by users for review and central filing.
- F. The IRWD, which may operate its own sewerage facilities, shall coordinate with SOCWA the establishment of technically based local limits. These limits shall be established in accordance with section 402 H. of this ordinance. These limits are to ensure that any user's effluent that is discharged to sewerage facilities does not cause, but is not limited to, the following:
 - 1. Upset, pass through or interference of the biological treatment process.
 - 2. Upset, pass through or interference of the sludge digestion process.
 - 3. Reclaimed or recycled water or generated biosolids to be unable to meet regulatory standards for beneficial reuse or unlimited distribution as defined by regulatory agencies.
 - 4. Violation of any IRWD or SOCWA NPDES permit limitations.
 - 5. Pass-through or interference causing the IRWD or SOCWA to violate any discharge limits of the SOCWA Ocean Outfalls.

402 SOCWA

- A. SOCWA has the authority to implement pretreatment and source control programs in accordance with federal and state regulations and the provisions of this ordinance, SOCWA's pretreatment and source control ordinance and interjurisdictional agreements with the MAs.
- B. SOCWA has the authority to approve all forms used in the pretreatment and source control program.
- C. SOCWA has the authority to, at any time, assume administration and enforcement of this ordinance within the service area of the IRWD.
- D. SOCWA has the authority to locate and terminate any non-compliant discharge that is not discontinued, upon notification that a non-compliant discharge is occurring.
- E. SOCWA has the authority to review all applications, wastewater discharge permits, other control mechanisms and any enforcement actions that have been taken.
- F. SOCWA has the authority to review all ordinances pertaining to pretreatment and source control programs before adoption or implementation by the IRWD.
- G. SOCWA has the authority to audit the IRWD when performing its own pretreatment and source control program.
- H. SOCWA shall oversee the establishment of technically based local limits for the IRWD. A review of the local limits may be conducted every five years or in conjunction with the renewal of SOCWA's NPDES Permits.

403 PROGRAM ENFORCEMENT

- A. The IRWD shall have first priority to enforce the regulations contained within this ordinance in accordance with, but not limited to, the following:
 - 1. SOCWA shall conduct the pretreatment and source control program for the IRWD unless otherwise directed by the interjurisdictional agreement with the IRWD.
 - 2. When the IRWD is performing its own program it shall inform SOCWA of all program activity.
 - 3. The IRWD when performing its own program shall conduct routine sampling of permitted users for constituents the industry must sample and analyze for as part of their self-monitoring program, and inform SOCWA of such activity.

404 APPLICATIONS

All applications for wastewater discharge permits may be reviewed by the IRWD and SOCWA.

405 WASTEWATER DISCHARGE (WD) PERMITS

- A. All proposed WD Permits may be reviewed by the IRWD and SOCWA before being issued to the user.
- B. All issued WD Permits shall be signed, identified and/or numbered by the IRWD or SOCWA.

406 INSPECTIONS, MONITORING AND ENFORCEMENT

- A. SOCWA shall be notified by the IRWD when inspecting, monitoring, or enforcement activities will or have already occurred. This may be done by, but not limited to, the following:
 - 1. Phone contact or correspondence.
 - 2. Submittal of written schedule reports or status reports.
- B. Emergency enforcement actions by the IRWD shall be reported to SOCWA by phone within twenty-four (24) hours during weekdays and within seventy-two (72) hours during weekends, and by written report within five (5) days of their notice to the user.

407 FUNDING

- A. Upon review by SOCWA, the IRWD may establish a schedule of wastewater discharge permit application fees, annual fees, sample analysis charges, and any other fees or charges required to recover reasonable costs of implementing a pretreatment and source control program.
- B. Costs incurred by the IRWD for its pretreatment activity may be collected by, but not limited to invoicing directly to the industrial user.

408 APPEALS

- A. The IRWD shall have first priority to handle appeals in accordance with the provisions of this ordinance.
 - 1. Appeals on staff action shall be directed to the General Manager.
 - 2. Appeals on the General Manager action shall be directed to the Board.
 - 3. Actions by the Board shall be final.
- B. SOCWA shall have the authority to handle appeals where the IRWD has no jurisdiction, or fails to enforce against a user in accordance with the provision of this ordinance or the interjurisdictional agreements.

**ARTICLE 5
GENERAL DISCHARGE PROHIBITIONS AND LIMITATIONS**

501 PROHIBITED DISCHARGES

- A. These prohibitions apply to all users of sewerage facilities whether or not they are subject to categorical pretreatment standards or any other national, State or local pretreatment standards or requirement.
- B. No user shall discharge directly or indirectly a quality or quantity of wastes, solids, viscous substances, wastewater or pollutants to sewerage facilities, either alone or by interaction with other substances, which cause or will cause:
1. Obstruction of flow.
 2. Pass through or interference.
 3. Inhibition of biological activity.
 4. The final effluent to fail a toxicity test.
 5. Corrosive or physical structural damage to sewerage facilities.
 6. Danger to life and/or safety of any person.
 7. Impairment of the effective maintenance or operation of any sewerage facility.
 8. A fire or explosion hazard based upon a closed cup flashpoint of less than 140 degrees Fahrenheit (60°C) using the test method specified in 40 CFR 261.21.
 9. The presence of toxic gases, vapors, fumes, or poisonous, noxious or malodorous gas producing substances that may cause acute worker health and safety problems.
 10. Any product of any sewerage facility including, but not limited to the final effluent ,biosolids, residue, sludge, or scum to be unsuitable for reclamation, reuse, or disposal.
 11. Discoloration or any other condition which affects the quality of the final effluent in such a manner that discharge requirements established by regulatory agencies cannot be met.
 12. Conditions which violate any statute, rule, regulation, or ordinance of any public agency or regulatory agency having jurisdiction over the discharge of wastewater through sewerage facilities.
 13. The discharge of petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin, which cause interference or pass through.

502 PROHIBITION ON DILUTION

Except where expressly authorized to do so by an applicable standard, no user shall discharge directly or indirectly to sewerage facilities an increase in the use of water to attempt to dilute a waste being discharged, as a partial or complete substitute for treatment to achieve compliance with this ordinance, a wastewater discharge permit, other control mechanism or to establish an artificially high flow rate for mass emission rates.

503 PROHIBITION ON BIOHAZARDOUS WASTE

No user shall discharge directly or indirectly to sewerage facilities a biohazardous waste without rendering it non-biohazardous prior to discharge if the biohazardous waste is deemed to pose a threat to public health and safety or will result in any violation of applicable waste discharge requirements.

504 PROHIBITION ON TOXIC OR HAZARDOUS WASTE

No user shall discharge directly or indirectly to sewerage facilities, any substance that is defined as a toxic or hazardous waste by regulatory agencies, except those wastes which meet the requirements of 40 CFR 403.

505 PROHIBITION ON WARFARE AGENTS

No user shall discharge directly or indirectly to sewerage facilities any radiological, chemical, or biological warfare agent.

506 LIMITATIONS ON DISPOSAL OF SPENT SOLUTIONS AND SLUDGES

- A. Any spent solutions, sludges, and/or other wastes generated by the user that are a hazardous waste and not treated on site shall be hauled by a registered hazardous waste transporter. The user shall complete and maintain a hazardous waste manifest that documents the removal and transport of the waste.
- B. All hazardous waste manifests shall be retained for a minimum of three (3) years and shall be made available to the IRWD upon request. The IRWD may require a longer period of retention if litigation is being considered.
- C. No user shall batch dump to sewerage facilities without written approval from the IRWD.

507 LIMITATIONS ON THE USE OF GRINDERS

Wastes from industrial or commercial grinders shall not be discharged into a sewerage facility, except wastes generated in packing or preparing food or food products on a case by case bases as approved by the IRWD. Such grinders must shred the waste to a degree that all particles will be carried freely under normal flow conditions prevailing in the sewerage facilities.

508 LIMITATION ON RAINWATER, STORMWATER, AND STREET DRAINAGE

No user shall discharge or cause to be discharged directly or indirectly into sewerage facilities any rainwater, stormwater, or street drainage that exceeds the first one-tenth (1/10) of an inch of precipitation from any storm event.

509 LIMITATIONS ON GROUNDWATER AND SUBSURFACE DRAINAGE

- A. Groundwater and subsurface drainage shall not be discharged directly or indirectly to sewerage facilities except as provided herein.
- B. the IRWD may approve the discharge of such water, by wastewater discharge permit or other control mechanism only, when no alternate method of disposal is reasonably available or to mitigate an environmental risk or health hazard.
- C. The discharge of such water shall require the following:
 - 1. A Class IV Special Wastewater Discharge Permit or other control mechanism issued by the IRWD, and
 - 2. Documentation from the user or user's consultant that all other alternate methods of disposal have been exhausted, and
 - 3. User shall pay all applicable fees and charges and shall meet any other conditions as required by the IRWD.

510 LIMITATIONS ON TRUCKED OR HAULED WASTES

- A. No user shall discharge trucked or hauled wastes directly or indirectly to sewerage facilities without written approval from the IRWD and SOCWA. Written approval may be in the form of an individual special wastewater discharge permit or other control mechanism.
- B. No user shall transport waste from one location to another for the purpose of treating or discharging it directly or indirectly to sewerage facilities without written approval from the IRWD and SOCWA. Written approval may be in the form of an individual special wastewater discharge permit or other control mechanism.

511 LIMITATIONS ON POINT OF DISCHARGE

No user shall discharge any wastewater directly or indirectly into a manhole or other opening in a sewerage facility other than through an approved building sewer unless approved in writing by the IRWD.

512 LIMITATIONS ON RADIOACTIVE WASTES

- A. No user shall discharge directly or indirectly to sewerage facilities any radioactive waste except as provided herein:
1. When the user is authorized to use radioactive materials by the State Department of Health or other governmental agency empowered to regulate the use of radioactive materials, and
 2. When the waste is discharged in strict conformity with current California Radiation Control Regulations (Cal. Adm. Code Title 17) for safe disposal, and
 3. When the user is in compliance with all other rules and regulations of all other applicable regulatory agencies.

513 LIMITATION ON UNPOLLUTED WATER

- A. Unpolluted water such as deionized, steam waste, distilled, single pass cooling water in excess of laboratory usage, blow-down or bleed water from cooling towers, or other evaporating coolers, or commercial swimming pool water drainage shall not be discharged directly or indirectly to sewerage facilities except as provided herein.
- B. The IRWD may approve the discharge of such water when no alternate method of disposal or reuse is reasonably available or there is need to mediate an environmental risk or health hazard.
- C. The discharge of such water shall require the following:
1. A Class IV Special Wastewater Discharge Permit or other control mechanism, and
 2. Documentation from the user or user's consultant that all other alternate methods of disposal have been exhausted, and
 3. User shall pay all applicable fees and charges and shall meet any other conditions as required by the IRWD.

514 MASS EMISSION LIMIT DETERMINATION

- A. Mass emission limits for non-compatible and compatible wastes that are present or anticipated in the user's wastewater discharge may be set for each user and made an applicable part of each user's wastewater discharge permit or other control mechanism. These limits shall be based on Table I, local limits or national pretreatment standards and the user's average daily wastewater discharge for the past three (3) years, the most recent representative data, or other data acceptable by the IRWD.
- B. To verify the user's operating data, the user may be required to submit an inventory of all wastewater streams and production data.
- C. The IRWD may revise local limit concentration limits or mass emission limits previously established in the user's wastewater discharge permit or other control mechanism at any time, based on current and/or anticipated operating data, the ability to meet NPDES Limits, and/or changes in the requirements of regulatory agencies.
- D. The increased use of water to establish an artificially high flow rate data base for mass emission limit determinations is prohibited.

515 WASTEWATER STRENGTHS AND CHARACTERISTICS

- A. No user shall discharge wastewater directly or indirectly to sewerage facilities with the following strengths and characteristics:
1. Having a temperature higher than 140 degrees Fahrenheit (60 degrees Centigrade) or which causes the temperature at the influent to a wastewater treatment plant to exceed 104 degrees Fahrenheit (40 degrees Centigrade).
 2. Containing substances that may precipitate, solidify, or become viscous at temperatures between 50 degrees Fahrenheit (10 degrees Centigrade) and 104 degrees Fahrenheit (40 degrees Centigrade).
 3. Containing materials which will readily settle or cause an obstruction to flow in sewerage facilities or be detrimental to the proper operation of a sewerage facility. These materials may include, but are not limited to, asphalt, concrete, dead animals, offal ashes, sand, mud, straw, industrial process shavings, metal, glass, rags, feathers, tar, plastics, wood, whole blood, bones, hair, coffee grounds, egg shells, flashings, diatomaceous earth, seafood shells, and paper products not intended for use in sewerage facilities.
 4. Producing a gaseous mixture that is ten percent (10%) or greater of the lower explosive limit (LEL). Prohibited materials include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, ketones, and alcohols.
 5. Having a pH less than 5.0 or greater than 11.0.
 6. Containing recognizable portions of human or animal anatomy.
 7. Containing excessive flow, constituents or other materials, including but not limited to, biological oxygen demand, chemical oxygen demand, total organic carbon, toxic pollutants, suspended solids, grease and oil of animal or vegetable origin total dissolved solids, detergents, surface active agents, phenolic compounds or other substances that are released in a discharge at a flow rate and/or concentration which will cause problems, pass-through or interference with sewerage facilities.
 8. Containing PCBs in excess of 0.01 mg/L as a daily maximum.
 9. Containing pesticides in excess of 0.01 mg/L as a daily maximum.
 10. Violation of any applicable national pretreatment standards, state standards, or other local regulations covering wastewater disposal.

516 SPECIFIC LOCAL LIMITS

- A. IRWD in coordination with SOCWA is authorized to establish local limits pursuant to 40 CFR 403.
- B. No user shall discharge directly or indirectly a quality or quantity of wastes or wastewater containing toxic pollutants, non-compatible or compatible wastes in excess of Table I, Specific Local Limits. All local limits for the metal pollutants are for the "total metal" amount analyzed, unless indicated otherwise.

Table I
Specific Local Limits

Pollutant	Limit (mg/L)
Arsenic	3.4
Cadmium	0.93
Chromium	4.9
Copper	7.2
Lead	4.9
Mercury	0.19
Nickel	9.5
Silver	2.8
Zinc	7.9
Cyanide	4.3
Oil and Grease	300

- C. Local limits are subject to more stringent standards as established by national pretreatment standards. Local limits are deemed to be pretreatment standards for the purposes of Section 307(d) of the Act, and are enforceable under Section 309 of the Act, potentially subjecting an IU to a penalty of \$25,000 per day for each violation.
- D. The IRWD may place more stringent standards within any wastewater discharge permit or other control mechanism issued to a user at any time, based on current and/or anticipated operating conditions presented in the wastewater discharge permit application, the ability to meet NPDES permit limits, and/or changes in the requirements of regulatory agencies.
- E. The IRWD may develop Best Management Practices (BMPs) for use in any wastewater discharge permit or other control mechanism to implement local limits and the requirements in this ordinance.

517 STATE REQUIREMENTS

Upon the adoption of any state requirements on user discharges that are more stringent than federal requirements or the limitations contained in this ordinance, that state standard shall then immediately supersede the federal standard and the limitations of this ordinance.

518 FEDERAL REQUIREMENTS

- A. Upon adoption of a national pretreatment standard more stringent than those contained in this ordinance, the federal standard shall immediately supersede the limitations listed in this ordinance and the affected significant industrial users shall be notified of the new standards and applicable reporting requirements.
- B. The significant industrial user shall comply with the national pretreatment standard within the time provided in the federal regulations that establish such standards even if their wastewater discharge permit has not yet been modified to incorporate the new requirement or standards.
- C. The significant industrial user shall comply with any applicable requirements under Sections 204(b) and 405 of the Act and Subtitles C and D of the RCRA.

**ARTICLE 6
WASTEWATER DISCHARGE PERMITS**

601 WRITTEN AUTHORIZATION

- A. Users may be required to obtain written authorization to use sewerage facilities. This written authorization may be in the form of a wastewater discharge permit or other control mechanism issued by the IRWD. No vested right shall be given or be granted by issuance of wastewater discharge permit or other control mechanism as provided for in this ordinance.
- B. When written authorization is granted, all the types of wastewater discharge permits and any other control mechanisms shall be expressly subject to all provisions of this ordinance and all other regulations, charges for use and fees established by the IRWD. The requirements contained in wastewater discharge permits or other control mechanisms are subject to enforcement under this ordinance and under state and federal law.
- C. All users that have obtained written authorization shall discharge their process wastewater only as provided for by their wastewater discharge permit or other control document.
- D. Compliance with wastewater discharge permit or other control mechanism provisions does not relieve the user from complying with any other applicable federal, state or local requirement.

602 TYPES OF WASTEWATER DISCHARGE PERMITS

- A. The wastewater discharge permit may be in one of four (4) types and is dependent upon process, volume and pollutant characteristics of the users discharge. The four types of wastewater discharge permits are:
 - 1. Class I – Wastewater Discharge (WD) Permit.
 - 2. Class II – Wastewater Discharge (WD) Permit.
 - 3. Class III – Wastewater Discharge (WD) Permit.
 - 4. Class IV – Special Wastewater Discharge (SWD) Permit.

603 TRANSFER PROHIBITION

Wastewater discharge permits issued under this ordinance are for a specific user, for a specific operation at a specific location. Wastewater discharge permits shall not be transferred for an operation at a different location.

604 CHANGE OF OWNERSHIP

- A. Upon the sale or transfer of ownership of any business operating under a wastewater discharge permit issued by the IRWD, the user shall notify the IRWD in writing prior to the change of ownership. The successor owner shall be required to apply for a new wastewater discharge permit prior to the sale or transfer of ownership.
- B. In the event that the original owner fails to notify the IRWD of the sale or transfer of ownership than said original owner may be jointly liable for any charges incurred by the new owner.
- C. This does not relieve the new owner of any liability for non-compliance with any federal, state, or local regulations or the provisions of this ordinance.

605 EXCESS CAPACITY REGULATORY FEE

New users or existing users that expand operations that require substantial sewerage facility capacity may be subject to an excess capacity sewerage facility regulatory fee in an amount and method to be solely determined by the IRWD on a case-by-case basis.

606 OUT OF SERVICE AREA WASTEWATER DISCHARGE PERMITS

Wastewater discharge permits for users located outside of the IRWD's service area but tributary to the IRWD's sewerage facilities shall only be issued after approval by the IRWD. Inspection and sampling of the user's discharge to determine compliance with discharge regulations will be made under a coordinated plan developed by SOCWA, the IRWD and the local sewerage agency. The more stringent discharge regulations and effluent limitations of affected agencies shall apply to the user. The fees for use shall be determined by the IRWD and set forth in an interjurisdictional agreement.

607 REQUIRED INFORMATION

- A. To provide for the equitable use of sewerage facilities, the IRWD shall have the right to require a user to provide all information necessary to maintain compliance with the provisions of this ordinance, including treatability studies to determine whether the wastewater would be compatible with all sewerage facilities. This information shall include, but is not limited to the following:
1. Wastewater discharge flow rates, peak flow rates and volume over any period of time.
 2. Physical, chemical or bacteriological analysis of wastewater.
 3. Information on raw materials, processes and products.
 4. Quantity, disposition and waste manifests of specific liquids, sludge, oil, solvent or other materials.
 5. Details of any pretreatment equipment.
 6. Details of systems to prevent and control the loss of material through spills and slug discharges.
 7. Review of all types of water bills.

608 CONFIDENTIAL INFORMATION

All user information and data on file shall be available to the public and governmental agencies without restriction, unless the user specifically requests and is able to demonstrate to the satisfaction of the IRWD that the release of such information would divulge information, processes or methods which would be detrimental to the user's competitive position. The demonstration of the need for confidentiality made by the user must meet the burden necessary for withholding such information from the general public under applicable state and federal law. Any such claim must be made at the time of submittal of the information by marking "Confidential Business Information" on each page containing such information within the submittal. Information which is demonstrated to be confidential shall not be transmitted to any governmental agency without prior notification to the user. Information concerning wastewater quality and quantity shall not be recognized as confidential information and shall be available to the public without reservation.

609 CLASS I – WASTEWATER DISCHARGE (WD) PERMIT

No user requiring a Class I WD Permit shall discharge wastewater without obtaining a Class I WD Permit. A Class I user, as determined by the IRWD, proposing to discharge directly or indirectly into a sewerage facility shall obtain a WD Permit by filing an application and paying any applicable fees before discharging.

610 CLASS II – WASTEWATER DISCHARGE (WD) PERMIT

No user requiring a Class II WD Permit shall discharge wastewater without obtaining a Class II WD Permit. A Class II user, as determined by the IRWD, proposing to discharge directly or indirectly into a sewerage facility shall obtain a WD Permit by filing an application and paying any applicable fees before discharging.

611 CLASS III – WASTEWATER DISCHARGE (WD) PERMIT

No user requiring a Class III WD Permit shall discharge wastewater without obtaining a Class III WD Permit. A Class III user, as determined by the IRWD, proposing to discharge directly or indirectly into a sewerage facility shall obtain a WD Permit by filing an application and paying any applicable fees before discharging.

612 CLASS IV – SPECIAL WASTEWATER DISCHARGE (SWD) PERMIT

- A. No user requiring a Class IV SWD Permit shall discharge wastewater without obtaining a Class IV SWD Permit. A Class IV user, as determined by the IRWD, proposing to discharge directly or indirectly into a sewerage facility shall obtain a SWD Permit by filing an application and paying any applicable fees before discharging.
- B. The SWD Permit may be issued when no alternative method of disposal is reasonably available or to mitigate an environmental risk or health hazard.
- C. A user proposing to discharge diverted urban nuisance water may be issued a nuisance special wastewater discharge (NSWD) Permit only after they have completed the requirements contained in the IRWD and SOCWA "Nuisance Flow Diversion Policy."
- D. A user proposing to discharge trucked or hauled wastes may be issued a hauled special wastewater discharge (HSWD) Permit only after they have completed all requirements set forth by the IRWD on a case by case basis. All trucked or hauled waste users shall comply with the terms, conditions and limitation set forth in a HSWD Permit as determined by the IRWD to be necessary to protect sewerage facilities. A trucked or hauled waste user proposing to discharge waste into a IRWD or SOCWA sewerage facility may be required to obtain both a valid Orange County Health Department permit (where applicable) and a HSWD Permit prior to any discharge.

613 NON-INDUSTRIAL WASTEWATER DISCHARGE (NIWD) FORM

- A. At the sole discretion of the IRWD, any user that is considered to have wastewater of no concern discharging to sewerage facilities may be classified as an NIWD user and issued an NIWD form.
- B. Any user that has had a Class I, II, or III WD Permit that no longer has a discharge containing noncompatible wastes to the IRWD's sewerage facilities may be classified as an NIWD user and issued an NIWD form.
- C. The main functions of the NIWD form are to assist in maintaining the IRWD's user survey data base and to track and verify by inspection any user that is considered to have wastewater of no concern discharging to sewerage facilities.

614 APPLICATION FOR WASTEWATER DISCHARGE PERMIT

- A. Users required to obtain a WD Permit shall complete and file with the IRWD, prior to commencing discharge, if applicable, an application on a form prescribed by the IRWD.
- B. Users seeking a WD Permit may be required to submit, in unit and terms appropriate for evaluation, the following information:
 - 1. Name, address of the site, NAICS numbers (if applicable), and a description of the manufacturing process or service activity.
 - 2. Name, address of any and all, (whichever is applicable) principals/owners/major share holders of company; articles of incorporation; most recent report of the Secretary of State and business license.
 - 3. Flow, volume, time, duration and type of wastewater to be discharged.
 - 4. Name, address and contact information of the individual who shall serve as the CAR.
 - 5. Name and address of property owner, landlord and/or manager of the property.
 - 6. Water supplier and water account numbers.

614 APPLICATION FOR WASTEWATER DISCHARGE PERMIT (cont)

7. Wastewater constituents and characteristics as required or deemed necessary by the IRWD, including but not limited to, those mentioned in this ordinance. These constituents and characteristics shall be determined by a laboratory of the discharger approved by the IRWD.
 8. Number of employees and average hours of work per employee per day.
 9. Waste minimization, best management practices and water conservation practices.
 10. All production records, if applicable.
 11. Waste manifests, if applicable.
 12. Tons of cooling tower capacity, if applicable.
 13. List of other environmental control permits and EPA Hazardous Waste Generator number, if applicable.
 14. Application signed by CAR of the user and contains the certification statement in Section 802.E
 15. Any other information as specified.
- C. Users may be required to submit site floor, mechanical, plumbing, toxic organic management, and spill containment plans for evaluation.
- D. After evaluation of the data furnished, the IRWD may issue a WD Permit, a NIWD Form or other control mechanism subject to the terms and conditions set forth in this ordinance and as otherwise determined by the General Manager to be necessary to protect sewerage facilities.
- E. The WD Permit application may be denied if the user fails to establish to IRWD's satisfaction that adequate pretreatment equipment is included within the user's plans to ensure that the discharge limits will be met or if the user has, in the past demonstrated an inability to comply with applicable discharge limits or has in the past demonstrated an inability to keep current with invoices for the items such as WD Permit fees, noncompliance fees, civil penalties, administrative civil penalties or charge for use.

615 APPLICATION FOR SPECIAL WASTEWATER DISCHARGE PERMIT

- A. Users required to obtain a SWD Permit shall complete and file with the IRWD, prior to commencing discharge, if applicable, an application on a form prescribed by the IRWD.
- B. Users seeking a SWD Permit may be required to submit, in unit and terms appropriate for evaluation, the following information:
1. Name, address and a description of the wastewater to be discharged.
 2. Name, address and contact information of the individual who shall serve as the CAR.
 3. Volume, time and duration of wastewater to be discharged.
 4. Construction and plumbing plans, if applicable.
 5. Detailed analysis of the alternatives for wastewater disposal, if applicable.
 6. Wastewater constituents and characteristics as required or deemed necessary by the IRWD, including but not limited to, those mentioned in this ordinance. These constituents and characteristics shall be determined by a laboratory selected by the user acceptable to the IRWD.
 7. Any other data as specified.

615 APPLICATION FOR SPECIAL WASTEWATER DISCHARGE PERMIT (cont)

- C. Users may be required to submit site, mechanical, plumbing, toxic organic management, and spill containment plans for evaluation if applicable.
- D. After evaluation of the information furnished, IRWD may issue a SWD Permit or other control mechanism subject to the terms and conditions set forth in this ordinance and as otherwise determined by the General Manager to be necessary to protect sewerage facilities.
- E. In the case of diverted urban nuisance water, after evaluation of the information furnished, IRWD may issue a NSWWD Permit, subject to the terms and conditions set forth in this ordinance and the "Nuisance Flow Diversion Policy" as otherwise determined by the General Manager to be necessary to protect sewerage facilities.
- F. The SWD Permit application may be denied if the user fails to establish to IRWD's satisfaction that adequate pretreatment equipment is included within the user's plans to ensure that the discharge limits will be met or if the user has, in the past demonstrated an inability to comply with applicable discharge limits or has in the past demonstrated an inability to keep current with invoices for items such as SWD Permit fees, non-compliance fees, civil penalties, administrative civil penalties or charges for use .

616 APPLICATION FOR NON-INDUSTRIAL WASTEWATER DISCHARGE (NIWD) FORM

- A. Users meeting the criteria for a NIWD form may be asked to complete and file with the IRWD an application on a form prescribed by the IRWD.
- B. Information on users that meet the criteria for a NIWD form may be obtained solely by the IRWD during site inspections or by other means.
- C. After evaluation of the data furnished by the user or from information collected solely by the IRWD an NIWD form may be issued.

617 WASTEWATER DISCHARGE PERMIT TERMS, CONDITIONS, AND LIMITATIONS

- A. All wastewater discharge permits shall be expressly subject to all terms, conditions, and limitations of this ordinance, other regulatory agencies, Best Management Practices, charge for use, and fees established by the IRWD. The terms, conditions, and limitations in a WD Permits are subject to enforcement by the IRWD in accordance with this ordinance, and applicable state and federal regulations. Any WD Permit violation shall be a violation of this ordinance.
- B. The terms, conditions, and limitations of any issued WD Permit may be subject to modification and changes by the IRWD during the life of the WD Permit based on:
 - 1. The discharger's current or anticipated operating data.
 - 2. The IRWD's current or anticipated operating data.
 - 3. Changes in the requirements of regulatory agencies.
- C. Users may request a modification to the terms, conditions, and limitations of an issued WD Permit. The request shall be in writing stating the requested change, and the reasons for the change. The IRWD shall review the request, make a determination and respond in writing. A request for a wastewater discharge permit modification does not relieve a user from complying with its existing WD Permit terms, conditions and limitations.
- D. Any changes to the terms, conditions or limitations in a WD Permit shall include a reasonable time schedule for compliance where allowed under applicable federal, state and local law.

617 WASTEWATER DISCHARGE PERMIT TERMS, CONDITIONS, AND LIMITATIONS (cont)

- E. A WD Permit may contain any, but is not limited to, the following terms, conditions and limitations:
1. Effluent limits, including mass emission rates, concentration limits or best management practices based on applicable pretreatment standards for regulated pollutants.
 2. Discharge limits based upon the combined wastestream formula (CWF).
 3. Limits on rate and time of discharge or requirements for flow regulation and equalization.
 4. Requirements for the user to make notification in writing prior to the physical expansion or any change to any wet processes. Notification is also required in the event of changes in production if production-based limits are being applied.
 5. Requirements for the user to construct and maintain, at the user's own expense, pH control, flow monitoring and/or sampling equipment and/or structures.
 6. Requirements for submission of technical reports, discharge reports and waste manifests.
 7. Location of sampling point(s) and the requirements to self-monitor.
 8. Requirements for maintaining plant records relating to wastewater discharge and waste manifests as specified by the IRWD.
 9. Predetermined rates or values for wastewater strength characteristics.
 10. Requirements to submit copies of water bills.
 11. Other provisions which may be applicable to ensure compliance with this ordinance.
 12. Other terms, conditions and limitations determined by the IRWD to be necessary to protect sewerage facilities.
 13. Predetermined rate or value for BOD and suspended solids.
 14. Requirements for notification of bypass discharges.
 15. Requirements for notification of any new introduction of wastewater constituents or any substantial change in the volume or character of wastewater constituents.
 16. Requirements to meet compliance schedules.
 17. Requirements for the user to control slug discharges by developing and implementing a slug discharge control plan if determined by the IRWD to be necessary as described in 40 CFR 403.8(f)(1)(iii)(B)(6).
 18. Requirements for the user to control toxic organic discharges by developing and implementing a toxic organics management plan if determined by the IRWD to be necessary.

618 WASTEWATER DISCHARGE PERMIT DURATION

All wastewater discharge permits shall not exceed a duration of five (5) years. Any wastewater discharge permit may be issued for a shorter period of time at the sole discretion of the IRWD.

619 WASTEWATER DISCHARGE PERMIT RENEWAL

- A. The user may file a new application prior to the expiration date of any existing wastewater discharge permit for renewal.
- B. Discharge after the termination date of a wastewater discharge permit is prohibited except:
 - 1. If the user filed a timely renewal application which is complete, and:
 - 2. The IRWD, through no fault of the user, does not issue a new wastewater discharge permit with an effective date on or before the expiration date of the previous wastewater discharge permit.

620 IRWD's RIGHT OF REVISION

- A. The IRWD reserves the right to establish, by ordinance, or by wastewater discharge permit or by Best Management Practices, or by any other control mechanism, more stringent standards or requirements on the discharge of users to sewerage facilities
- B. The terms, conditions and limitations contained in any WD Permit, Best Management Practices or other control mechanism may be modified by the IRWD at any time. This modification shall be by written notification to the user.

**ARTICLE 7
PRETREATMENT EQUIPMENT REQUIREMENTS**

701 PRETREATMENT

- A. All pretreatment equipment or devices may be reviewed by the IRWD. Such review shall not absolve the user of any responsibility of meeting prohibitions, limitations, requirements, standards and local limits on discharges.
- B. User shall provide wastewater treatment as necessary which may include, but is not limited to, the use of best available technology (BAT) or best practicable technology (BPT) concepts to comply with this ordinance and shall achieve compliance with all prohibitions, limitations, standards and local limits before discharging to any sewerage facility. Any equipment required to pretreat, sample, control or transport wastewater shall be provided and maintained in proper operating condition at all times at the user's sole expense.
- C. User may be required to submit waste analysis plans, contingency plans, and meet other requirements to ensure proper operation of pretreatment equipment and compliance with their wastewater discharge permit limits and this ordinance.
- D. No user shall increase the use of water or in any other manner attempt to dilute a discharge as a partial or complete substitute for treatment to achieve compliance with this ordinance, a wastewater discharge permit or other control mechanism.

702 SPILL CONTAINMENT

- A. Each user shall provide spill containment for protection against the discharge of prohibited materials or other wastes regulated by this ordinance. This protection shall be designed in accordance with reasonable engineering standards to secure the discharges and to prevent them from entering into a sewerage facility. This equipment shall be provided and maintained at the user's sole expense.
- B. If it can be shown that a user's spill containment equipment did not prevent a discharge which caused the IRWD to violate its requirements, incur additional operational expenses, or suffer loss or damage to sewerage facilities, that user shall be responsible for any costs or expenses, including assessment by other agencies or any costs incurred by the IRWD.
- C. A notice may be permanently posted on the user's bulletin board or other prominent place advising employees who to call in the event of a prohibited discharge. Employers shall ensure that all employees who may cause or suffer such a prohibited discharge to occur are advised of the emergency notification procedure.

703 MONITORING AND METERING EQUIPMENT

- A. The user may be required to construct and maintain in proper operating condition at the user's sole expense, flow and/or constituent monitoring and/or sampling equipment.
- B. Any sample taken from a user's sample point shall be considered to be representative of the discharge to sewerage facilities.
- C. Monitoring or metering equipment may be required to include a security enclosure that can be locked with a IRWD provided lock during any sampling and monitoring periods.
- D. Location of the monitoring or metering equipment shall be subject to approval by the IRWD.
- E. The IRWD shall be provided clear and uninterrupted access to monitoring or metering locations.
- F. When one or more users discharge into a sewerage facility, those users may be required to install a separate monitoring location for each user. Also in the judgment of the IRWD, if there is a significant difference in wastewater constituents and characteristics produced by different operations of a single user, that user may be required to install separate monitoring locations for each operation. Separate monitoring may also be required for different processes subject to categorical pretreatment standards.

703 MONITORING AND METERING FACILITIES (cont)

- G. Users with the potential to discharge flammable solutions may be required to install and maintain at their sole expense a combustible gas detection meter.
- H. All wastewater samples shall be representative of the user's discharge. Wastewater monitoring and flow measurement equipment shall be operated, kept clean, and maintained in good working order at all times. Failure by the user to keep its monitoring equipment in good working order shall not be grounds for the user to claim that sample results are unrepresentative of its discharge.

704 DRAWING SUBMITTALS

- A. Detailed plans of any proposed construction of pretreatment, spill containment, monitoring and metering equipment and operating procedures shall be submitted for review by the due date contained within a written request from the IRWD. The review of the plans and procedures shall in no way relieve the user of the responsibility of modifying the equipment or procedures in the future as necessary to meet the requirements of this ordinance or any other requirement of other regulatory agencies.
- B. All drawings shall include:
 - 1. North arrow.
 - 2. Scale size.
 - 3. User name and address.
 - 4. Date drawn or revised.
 - 5. Location of proposed pretreatment, spill containment, monitoring and metering equipment.
- C. The IRWD may require drawings to scale depicting the manufacturing process (waste generating source), spill containment, pretreatment and/or monitoring or metering equipment.
- D. The IRWD may require a schematic drawing of the pretreatment, spill containment, monitoring and metering equipment.
- E. The IRWD may require the drawings be prepared by a California registered chemical, mechanical, or civil engineer.

705 WASTE MINIMIZATION, RECYCLING, AND TREATMENT

- A. User shall provide waste minimization plans to conserve water, investigate product and/or materials substitution, maintain inventory control records and implement employee education, and other steps as necessary to minimize waste produced by the due date contained within a written request from the IRWD.
- B. Waste minimization, recycling and treatment shall be demonstrated wherever feasible in the following priority:
 - 1. Source reduction which includes, but is not limited to, substitution of less hazardous materials, spill prevention and control measures, proper storage and handling of chemicals and raw materials.
 - 2. Recovery and reuse which includes, but is not limited to, substitution of less hazardous materials, spill prevention and control measures, proper storage and handling of chemicals and raw materials.
 - 3. Treatment which includes, but is not limited to, pretreatment techniques as to render hazardous wastes harmless or suitable for disposal to sewerage facilities.

**ARTICLE 8
INSPECTION, MONITORING, SAMPLING,
NOTIFICATION, AND REPORTING REQUIREMENTS**

801 INSPECTION AND MONITORING

- A. The IRWD may inspect and sample the wastewater generating and disposal equipment of any user's site to ascertain whether the requirements of this ordinance are being met and the user is complying with all requirements.
- B. Where a user has instituted security measures requiring proper identification and clearance before entry onto the premises, the user shall make all necessary arrangements with its security in order that the inspectors of the IRWD shall be allowed to enter the premises without delay for the purpose of performing their authorized duties.
- C. The IRWD shall have the right to set up on the user's property or any other locations, as determined by the IRWD, such devices as are necessary to conduct sampling or metering operations of the user's discharge to sewerage facilities.
- D. In order for the IRWD to determine the wastewater characteristics of a discharge for compliance with this ordinance, wastewater discharge permit, or other control mechanism requirements, the user may be required to make available for inspection and copying all records including, but not limited to, production records, required self-monitoring and chain of custody records, any additional records of information obtained pursuant to monitoring activities undertaken by the user independent of such requirements, documents associated with Best Management Practices and waste manifests without restriction, but subject to the confidential provisions set forth in this ordinance. All records shall be maintained by users for a minimum of three (3) years. This period shall be automatically extended for the duration of any litigation concerning the user, or when the user has been notified by written request from the IRWD. Such records shall be made available to the IRWD upon request.
- E. Any temporary or permanent obstruction to safe and easy access to the user's site to be inspected and/or sampled shall be promptly removed by the user at the written or verbal request of the IRWD and shall not be replaced. The costs of cleaning such access shall be at the sole expense of the user.
- F. Inspection and/or sampling of any user's site shall be conducted at any time, by any means, in any amount, at any location, on any limit, requirement or pollutant in a manner and frequency as determined at the sole discretion of the IRWD.

802 SELF-MONITORING AND REPORTING

- A. Self-monitoring of wastewater pollutants, constituents and characteristics of the user needed for determining compliance with any limitations and requirements as specified in the user's wastewater discharge permit, federal regulations, or this ordinance may be required. The self-monitoring requirement, frequency, forms and reporting shall be set forth in the user's wastewater discharge permit or other control mechanism. These reports may include, but are not limited to, the following:
 - 1. Baseline monitoring reports (BMR's).
 - 2. Compliance schedule progress reports.
 - 3. 90-day compliance reports.
 - 4. Self-monitoring reports containing monitoring and analysis to demonstrate continued compliance as described in 40 CFR 403.12(g)(1-6).
 - 5. Other reports as required by the IRWD, other regulatory agencies or applicable law.

802 SELF-MONITORING AND REPORTING (cont)

- B. Failure by the user to perform any self-monitoring or reporting required by the IRWD shall be a violation of this ordinance, and is deemed to be a violation for each parameter and each day in the time period for which monitoring was required, and cause for the IRWD to initiate all necessary tasks and analysis to determine the wastewater pollutants, constituents and characteristics for any limitations and requirements specified in the user's wastewater discharge permit or in this ordinance. The user shall be responsible for any and all expenses incurred by the IRWD in undertaking such monitoring analysis and preparation of reports.
- C. All users required to sample and analyze their wastewater shall use the sampling methods and the sampling locations as set forth in their wastewater discharge permit. For each sample collected and analyzed, the user shall maintain a record of:
 - 1. Date, exact place, method and time of sampling and the name of the person taking the sample.
 - 2. Date analysis performed.
 - 3. Identity and address of the person who performed the analysis.
 - 4. The analytical methods used.
 - 5. Results of the analysis.
- D. Samples taken shall be representative of conditions occurring during the reporting period. Users shall submit all monitoring data, even if user samples more frequently than required by its wastewater discharge permit. User is required to provide advance notice of any substantial change in the volume or character of pollutants in their discharge.
- E. When required, all submitted applications and user reports shall be signed by the CAR as defined in this ordinance. Each application and any required user report shall contain the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Date: _____

Signature: _____

Print Name: _____

Title: _____

User Name: _____

User Site
Address: _____

User Mailing
Address: _____

Phone: _____

Permit No: _____

802 SELF-MONITORING AND REPORTING (cont)

- F. Self-monitoring reports shall be subject to the provisions of 18 U.S.C. Section 1001 relating to false statements and fraud and the provisions of Section 309(c)(2) of the Act governing false statements.
- G. The analysis of a user's wastewater pollutants, constituents and characteristics shall be done by a laboratory approved by the IRWD.
- H. If self-monitoring indicates a violation, the user shall notify the IRWD within 24 hours of becoming aware of the violation. The user shall repeat the sampling and analysis and submit the results of the repeat analysis to the IRWD within 30 days after the repeat sampling event. Resampling by a user is not required if the IRWD performs the sampling at the user's site at least once a month, or if the IRWD performs sampling at the user between the time when the initial sampling was conducted and the time when the user or the user or the MNWD receives the results of the sampling, or if the IRWD has preformed the sampling and analysis in lieu of the user.
- I. The analysis of wastewater pollutants, constituents and characteristics and the preparation of the self-monitoring report shall be done at the sole expense of the user.
- J. The user shall establish and maintain a sample point on each discharge line at a location representative of the discharge to sewerage facilities. The maintenance of any sample point equipment shall be done at the sole expense of the user. Any sampling location shall be set forth in the user's wastewater discharge permit.
- K. Any user subject to the reporting requirements of this ordinance shall retain all records of monitoring activities and results for a minimum of three (3) years and shall make them available to the IRWD upon request. The IRWD may require a longer period of retention if litigation is being considered or has resulted.
- L. Any user subject to self-monitoring reporting requirements may be required to submit self-monitoring reports on forms approved by the IRWD.
- M. Any user determined to be a non-significant categorical industrial user (NSCIU) by SOCWA pursuant to Section 202.B.86.c. and 808.B shall annual submit the following certification statement signed by the CAR as defined in this ordinance. This certification shall accompany an alternative report required by SOCWA:

"Based on my inquiry of the person or persons directly responsible for managing compliance with categorical pretreatment standards under 40 CFR ____, I certify that, to the best of my knowledge and belief that during the period from January 1, ____ to December 31, ____:

(a) The facility described as _____ met the definition of non-significant categorical industrial user as described in Section 202.B.86.c.;

(b) The facility complied with all applicable pretreatment standards and requirements during this reporting period; and (c) the facility never discharged more then 100 gallons of total categorical wastewater on any given day during this reporting period.

Date: _____

Signature: _____

Print Name: _____

This compliance certification is based on the following information.

803 REPORT OF SPILL, SLUG DISCHARGE, BATCH DUMPING OR UPSET

- A. In the event the user is unable to comply with any of the wastewater discharge permit conditions due to a breakdown of equipment, accidents caused by human error, or intentional action by any party, or acts of God, or any other cause, the discharger shall notify the IRWD as soon as possible of any spill, slug discharge, batch dumping or upset.
- B. Confirmation of this notification shall be made in writing within five (5) working days of the original notification unless waived by the IRWD. The written notification shall contain:
 - 1. Date of the incident.
 - 2. Reason for the spill, slug discharge, batch dumping or upset.
 - 3. The steps that were taken to immediately correct the problem.
 - 4. The steps that are being taken to prevent the problem from recurring.
 - 5. Any other information the IRWD deems relevant.
- C. Such notification shall not relieve the user of any expense, loss, damage, liability or fees which may be incurred as a result of damage or loss to sewerage facilities or any damage or loss to persons or property. Such notification shall never relieve the user from any fees or liability which may be imposed by this ordinance, other regulatory agencies or other applicable law.
- D. Significant industrial users shall notify IRWD immediately of any changes at its site affecting the potential for a slug discharge

804 REPORTING OF BY-PASS

- A. By-pass of industrial wastewater through pretreatment equipment to the sewerage facilities is prohibited. Enforcement action may be taken against the user, unless:
 - 1. By-pass was unavoidable to prevent loss of life, personal injury, or severe property damage, and
 - 2. There were no feasible alternatives to the by-pass, such as the use of auxiliary treatment equipment, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a by-pass which occurred during normal periods of equipment downtime or preventative maintenance, and
 - 3. The user submitted notice as required by this ordinance, or;
 - 4. The bypass did not exceed user discharge limits and was required for essential maintenance.
- B. If a user knows in advance of the need for a by-pass, it shall submit prior notice to the IRWD at least ten (10) days before the date of the by-pass.
- C. The IRWD may approve an anticipated by-pass after considering its adverse effects, if the IRWD determines that it will meet the conditions listed within this section.

804 REPORTING OF BY-PASS (cont)

- D. A user shall submit notice of an unanticipated by-pass that exceeds their wastewater discharge permit limitation to the IRWD within 24 hours from the time the user becomes aware of the by-pass. A written report shall also be provided within five (5) working days of the time the user becomes aware of the by-pass. The report shall contain:
1. Description of the by-pass and its cause.
 2. Duration of the by-pass, including exact dates and times.
 3. Anticipated time it is expected to continue if the by-pass has not been corrected.
 4. Steps taken or planned to reduce, eliminate, and prevent recurrence of the by-pass.
- E. Failure to submit notice and/or written report may be grounds for wastewater discharge permit suspension or revocation. Failure to provide timely notice under Section 804 D. is deemed a waiver of the bypass defense for the user violation.
- F. Such notification shall not relieve the user of any expense, loss, damage, or other liability which may be incurred as a result of damage or loss to sewerage facilities or any other damage or loss to person or property. Such notification shall never relieve the user from any fees or liability that may be imposed by this ordinance, other regulatory agencies or other applicable law.

805 BASELINE MONITORING REPORTS (40 CFR 403.12(b))

- A. Within either one hundred eighty (180) days after the effective date of a categorical standard or the final administrative decision on a category determination under 40 CFR 403.6(a)(4), whichever is later, an existing categorical industrial user currently discharging to or scheduled to discharge shall submit to the IRWD a report containing the information listed below. At least ninety (90) days prior to commencement of discharge, new sources, and sources that become categorical industrial users subsequent to the promulgation of an applicable categorical standard shall submit to the IRWD a report containing the information listed below. A new source shall report the method of pretreatment it intends to use to meet applicable categorical standards. A new source also shall give estimates of its anticipated flow and quantity of pollutants to be discharged. The baseline monitoring report shall include, but is not limited to, the following:
1. Identifying information. The name and address of the site, including the name of the operator and owner.
 2. Permits. A list of any environmental control permits held by or for the site.
 3. Description of Operations. A brief description of the nature, average rate of production, and North America Industrial Classification of the operation(s) carried out by such industrial user. This description should include a schematic process diagram which indicates points of discharge to sewerage facilities from the regulated processes.
 4. Flow Measurements. Information showing the measured average daily and maximum daily flow, gpd, to sewerage facilities from regulated process streams and other streams as necessary.
 5. Measurement of Pollutants. The categorical pretreatment standards applicable to each regulated process and the results and analysis identifying the nature and concentration, and/or mass, where required by the standard or by the IRWD, of regulated pollutants in the discharge from each regulated process. Instantaneous, daily maximum, and long-term average concentrations, or mass where required, shall be reported. The sample shall be representative of daily operations. In cases where the standards requires compliance with a BMP or pollution prevention alternative, the industrial user shall submit documentation as required by the IRWD or the applicable standards to determine compliance with the standard.
 6. Certification. A statement, reviewed by the user's CAR and certified by a qualified professional, indicating whether pretreatment standards are being met on a consistent basis, and if not, whether additional operation and maintenance (O&M) and/or additional pretreatment is required to meet the pretreatment standards and requirements.

805 BASELINE MONITORING REPORTS (40 CFR 403.12(b)) (cont)

7. Compliance schedule. If additional pretreatment and/or O&M will be required to meet the pretreatment standards, the shortest schedule by which the industrial user will provide such additional pretreatment and/or O&M. The completion date in this schedule shall not be later than the compliance date established for the applicable pretreatment standard.
8. Signature and certification. All monitoring reports shall be signed and certified in accordance with Section 802 E. of this ordinance.

806 REPORT ON PROGRESS IN MEETING COMPLIANCE SCHEDULES(40 CFR 403.12(c))

- A. All Class I users required to submit compliance schedules shall report their progress no later than fourteen (14) days after each due date contained in their compliance schedule.
- B. The schedule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the user to comply with the applicable pretreatment standards.
- C. No increment referred to above shall exceed nine (9) months.
- D. In no event shall more than nine (9) months elapse between progress reports to the IRWD.

807 REPORT ON COMPLIANCE WITH CATEGORICAL PRETREATMENT STANDARDS DEADLINE (40 CFR 403.12(d))

- A. Within ninety (90) days following the date for final compliance with the applicable categorical standards or within ninety (90) days of the introduction of wastewater into sewerage facilities, the affected user shall submit a report containing the information listed below. This report shall include, but is not limited to the following:
 1. Flow Measurements. Information showing the measured average daily and maximum daily flow, in gallons per day, to sewerage facilities from regulated process streams and other streams.
 2. Measurement of Pollutants. The categorical pretreatment standards applicable to each regulated process and the results and analysis identifying the nature and concentration, and/or mass, where required by the standard or by the IRWD, of regulated pollutants in the discharge from each regulated process. Instantaneous, daily maximum, and long-term average concentrations, or mass where required, shall be reported. The sample shall be representative of daily operations.
 3. Certification. A statement, reviewed by the user's CAR and certified by a qualified professional, indicating whether pretreatment standards are being met on a consistent basis, and if not, whether additional operation and maintenance (O&M) and/or additional pretreatment is required to meet the pretreatment standards and requirements.
 4. Signature and certification. All monitoring reports shall be signed and certified in accordance with Section 802 E. of this ordinance.

808. PERIODIC COMPLIANCE REPORT

- A. All Class I users subject to federal pretreatment standards (except a non-significant categorical user) as a minimum shall submit reports containing the information required in 40 CFR 403.12 during the months of June and December, or as required in their wastewater discharge permit or other control mechanism.
- B. A Class I user determined to be a non-significant categorical industrial user by the IRWD pursuant to Section 202.B.86.c. shall annually submit a report containing information as required in their wastewater discharge permit or other control mechanism.
- C. All users may be required to submit periodic compliance reports containing information as required in their wastewater discharge permit, other control mechanism or as required by the IRWD.

809 RIGHT OF ENTRY

IRWD shall have the right to enter the premises of any user to determine whether the user is complying with the requirements of this ordinance and any individual wastewater discharge permit, other control mechanism or order issued hereunder. Users shall allow the IRWD ready access to all parts of the premises for the purpose of inspection, sampling, records examination and copying, and the performance of any other duties.

810 ANALYTICAL REQUIREMENTS

All pollutant analyses, including sampling techniques, to be submitted as part of a wastewater discharge permit application or report shall be performed in accordance with the techniques prescribed in 40 CFR Part 136 and amendments thereto, unless otherwise specified in an applicable categorical pretreatment standard. If 40 CFR Part 136 does not contain sampling or analytical techniques for the pollutant in question, or where the EPA determines that the Part 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analyses shall be performed by using validated analytical methods or any other applicable sampling and analytical procedures, including procedures suggested by the IRWD or other parties approved by the EPA.

811 SAMPLE COLLECTION

- A. Samples collected by the user to satisfy reporting requirements contained in this ordinance, their wastewater discharge permit or other control mechanism shall be based on data obtained through appropriate sampling and analysis performed during the period covered by the report, based on data that is representative of conditions occurring during the reporting period.
- B. Except as indicated in Section 811.C. and 811.D. below, the user shall collect wastewater samples using 24-hour flow-proportional composite sampling techniques, unless time-proportional composite sampling or grab sampling is authorized by the IRWD. Where time-proportional composite sampling or grab sampling is authorized by the IRWD, the samples shall be representative of the discharge. Using protocols specified in 40 CFR 136 and appropriate EPA guidance, multiple grab samples collected during a 24-hour period may be composited prior to the analysis as follows: for cyanide, total phenols and sulfides the samples may be composited in the laboratory or in the field; for volatile organics and oil and grease, the samples may be composited in the laboratory. Composite samples for other parameters unaffected by the compositing procedures as documented in approved EPA methodologies may be authorized by the IRWD, as appropriate. In addition, grab samples may be required at any time to show compliance with instantaneous discharge limits.
- C. Samples for analysis of oil and grease, temperature, pH, cyanide, total phenols, sulfides, and volatile organic compounds shall be obtained using grab sample collection techniques.
- D. For sampling required in support of baseline monitoring and 90-day compliance reports required by this ordinance and 40 CFR 403.12(b) and (d), a minimum of four (4) grab samples shall be used for pH, cyanide, total phenols, oil and grease, sulfide and volatile organic compounds for users for which historical sampling data do not exist; for users for which historical sampling data are available, IRWD may authorize a lower minimum. For reports required by this ordinance and 40 CFR 403.12(e) and (h), the user shall collect the number of grab samples necessary to assess and assure compliance with applicable pretreatment standards and requirements.

812 TIMING

Reports shall be deemed to have been submitted on the date postmarked. For reports that are not mailed or delivered with postage prepaid the date of receipt of the report shall govern.

813 NOTIFICATION OF CHANGED DISCHARGE

All users that have been issued a wastewater discharge permit shall notify the IRWD in advance of any substantial change in the volume or character of pollutants in their discharge in accordance with 40 CFR 403.12(j)

**ARTICLE 9
ENFORCEMENT**

901 ENFORCEMENT SCOPE

- A. The IRWD finds that in order for it to comply with the laws, regulations, and rules imposed upon it by regulatory agencies and to ensure that sewerage facilities and treatment processes are protected and are able to operate with the highest efficiency, specific enforcement provisions must be adopted to regulate discharges from industrial users.
- B. The IRWD is willing to cooperate with all users on improvements in wastewater quality, yet must be in a position to ensure that uncooperative users shall comply with this ordinance and any conditions set forth in a wastewater discharge permit.
- C. The IRWD intends to ensure that all interested parties are afforded due process of law and that any noncompliance or violation is resolved as soon as possible.
- D. All users have a right of appeal pursuant to the procedures set forth in this ordinance.
- E. Each non-compliance or violation per day and each day of noncompliance or violation shall be taken as a separate noncompliance or violation for determining the amount of fees, charges, fines or penalties and/or which enforcement actions may be taken. A violation of a weekly average is considered seven (7) days of violation for that parameter and a violation of a monthly average is based upon the number of days in that month. A violation of multiple parameters caused by a single operational upset is considered one violation.
- F. The issuance or exercise of any type of an enforcement action provided for under this ordinance shall not be a bar against, or a prerequisite for, taking any other or additional enforcement action against a user under this ordinance or any other local, state or federal law. The remedies provided for in this ordinance are not exclusive and the IRWD is empowered to take more than one enforcement action against any noncompliant user.

902 NOTICE OF NONCOMPLIANCE (NON)

- A. In the event that it is determined that a user is in noncompliance with any provision of this ordinance, or the terms, conditions and limitations of its wastewater discharge permit, the IRWD may issue a NON form, whereby the user shall comply with all directives, conditions and requirements therein within the time prescribed.
- B. The issuance of a NON form may contain terms and conditions including, but not limited to, installation of pretreatment equipment, sampling structures, submittal of drawings or technical reports, payment of fees or administrative fines, limits on rate and time of discharge or any other provisions to ensure compliance with this ordinance and the user's wastewater discharge permit. This action is not a prerequisite to taking other or more severe enforcement actions.

903 NOTICE OF VIOLATION (NOV)

- A. In the event that it is determined that a user has not responded to a NON form that was previously issued to them or that noncompliance of any pretreatment standards requires their immediate attention, the IRWD may issue a NOV form, whereby the user shall comply with all directives, conditions and requirements therein within the time prescribed.
- B. The issuance of a NOV form may contain terms and conditions including, but not limited to, installation of pretreatment equipment and facilities, submittal of drawings or technical reports, payment of fees, administrative fines, limits on rate and time of discharge or any other provisions to ensure compliance with this ordinance. This action is not a prerequisite to taking other or more severe enforcement actions.

904 ADMINISTRATIVE ORDER (AO)

- A. The AO is an enforcement document from the IRWD directing the noncompliant user to undertake or to cease specific activities required to bring the user into compliance with this ordinance or the terms, conditions and limitation of a wastewater discharge permit as determined by the IRWD. The terms and conditions of the AO are not negotiable by the user. The circumstances of a user's noncompliance may dictate which theme the administrative order takes to achieve the earliest possible return to compliance by the user. AOs may include administrative complaints. Types of AOs may include, but are not limited to, the following:

1. Probation Order (PO)

- a. The PO directs the noncompliant user to achieve compliance by a date specified in the order. The PO is usually issued when a user is in non-compliance of this ordinance, or the terms, conditions and limitations of its wastewater discharge permit or other enforcement action, or has not made payment of all amounts owed to the IRWD which include, but are not limited to, any fees, charges, fines and/or penalties. This action is not a prerequisite to taking other or more severe enforcement actions.

2. Show Cause Order (SCO)

- a. The SCO directs the noncompliant user to appear at a formal meeting, usually at a IRWD location, to explain its noncompliance, and to show cause why more severe enforcement actions against the user should not go forward. This action is not a prerequisite to taking other or more severe enforcement actions.

3. Cease and Desist Order (CDO)

- a. The CDO directs the noncompliant user to cease illegal or unauthorized discharges immediately, or to terminate its discharge altogether. A CDO may be issued in situations where a particular discharge could cause interference or pass through, or threaten human safety or the environment. The CDO may be issued immediately upon discovery of the problem. In an emergency, a CDO may be issued by any means, however, such an order should be followed by a written CDO on the user. If necessary, the IRWD may order immediate cessation of any discharge to the a sewerage facility, regardless of the user's compliance status. If a user fails to comply with the CDO, the IRWD may take any independent action to halt the discharge. This action is not a prerequisite to taking other or more severe enforcement actions.

905 WASTEWATER DISCHARGE PERMIT SUSPENSION OR REVOCATION

A. Grounds

1. The IRWD may suspend or revoke any wastewater discharge permit, but is not limited to the following, when it is determined that a user:
- a. Violated an administrative order.
 - b. Provided a false statement, representation, record, report or other document to the IRWD.
 - c. Refused to provide records, reports, plans or other documents required to determine wastewater discharge permit terms, conditions, or limitations, discharge compliance, or compliance with this ordinance.
 - d. Discharged effluent that causes pass-through or interference with sewerage facilities.
 - e. Falsified, tampered with, or knowingly rendered inaccurate any monitoring device or sample collection method.
 - f. Discharged effluent that endangers human health or the environment.
 - g. Failed to report significant changes in operations or wastewater constituents and characteristics.

905 WASTEWATER DISCHARGE PERMIT SUSPENSION OR REVOCATION (cont)

- h. Failed to comply with the terms and conditions of any enforcement action.
 - i. Refused reasonable access to the permittee's premises for the purpose of inspection and monitoring.
 - j. Failed to make timely payment of any fees, charges, fines or penalties owed to the IRWD.
 - k. Violated any conditions or limitations of its wastewater discharge permit or any provision of this ordinance.
 - l. Discharged batch dumps to sewerage facilities not authorized or permitted by the IRWD.
- B. Notice of Wastewater Discharge Permit Suspension/Revocation**
- 1. When the IRWD has reason to believe that grounds exist for suspension/revocation of a wastewater discharge permit, written notice shall be given by certified mail to the user setting forth a statement of facts and grounds deemed to exist together with a description of the time and place where the charge shall be heard by the General Manager. The hearing date shall not be less than fifteen (15) days nor more than sixty (60) days after the mailing of such notice.
- C. Hearing on Permit Suspension/Revocation**
- 1. At the wastewater discharge permit suspension/revocation hearing, the user shall have an opportunity to respond to the allegations set forth in the notice. The hearing shall be conducted in accordance with procedures established by the General Manager and approved by the IRWD's General Counsel.
 - 2. After the hearing, the General Manager's designee shall submit a written report to the General Manager setting forth a brief statement of facts found to be true, a determination of the issues presented, conclusions, and a recommendation.
 - 3. Upon receipt of the written report, the General Manager shall make his determination. Should he find that the grounds exist for suspension/ revocation of the wastewater discharge permit, he shall issue his decision and order, in writing within thirty (30) days after the hearing by his designee. A copy of the written decision shall be sent by personal delivery or certified mail to the user.
- D. Effect of Wastewater Discharge Permit Suspension**
- 1. Upon the issuance of an order of suspension by the General Manager, the user shall have no right to discharge any industrial wastewater, directly or indirectly to sewerage facilities for the duration of the suspension. All costs for physically terminating and reinstating service shall be paid by the user.
 - 2. An order of wastewater discharge permit suspension issued by the General Manager shall be deemed final upon delivery to the user, unless appealed to the Board as specified in Section 913 of this ordinance.
- E. Effect of Wastewater Discharge Permit Revocation**
- 1. On the effective date of a wastewater discharge permit revocation being final, the user shall permanently lose all rights to discharge any industrial wastewater directly or indirectly to sewerage facilities. All costs for physical termination shall be paid by the user.
 - 2. Each owner and employee of the user shall be bound by the order of wastewater discharge permit revocation.
 - 3. Any future application from any user subject to an order of wastewater discharge permit revocation will only be considered by the IRWD after fully reviewing the records of revocation. Such records may be the basis for denial of a new wastewater discharge permit.
 - 4. An order of permit revocation issued by the General Manager shall be deemed final upon delivery to the user, unless appealed to the Board as specified in Section 913 of this ordinance.

906 TERMINATION OF SERVICE

The IRWD may physically terminate water or sewer service to any user that violates or continues to violate the provisions of this ordinance, a term of any order of suspension or revocation of a wastewater discharge permit or other control mechanism. All costs for physical termination shall be paid for by the user as well as all costs for reinstating services.

907 EMERGENCY SUSPENSION

- A. The IRWD may suspend water or sewer service when such suspension is necessary, in order to stop an actual or impending discharge which presents or may present an imminent or substantial endangerment to the health and welfare of persons, to the environment, cause interference to sewerage facilities, or cause the IRWD to violate any state or federal law or regulation.
- B. An emergency suspension order is final and has no right of appeal.

908 INJUNCTION

Whenever a discharge of wastewater is in violation of the provisions of this ordinance, the IRWD may petition the superior court for the issuance of a preliminary or permanent injunction, or both, as may be appropriate to restrain the continuance of such discharge.

909 CIVIL FINES AND PENALTIES

- A. Authority.
 - 1. All users of sewerage facilities are subject to administrative or judicial enforcement actions by the IRWD, EPA, State Regional Water Quality Control Board or the District Attorney of Orange County. Actions may be taken pursuant to the authority and provisions of several laws, including but not limited to:
 - a. Federal Water Pollution Control Act (Clean Water Act).
 - b. California Porter-Cologne Water Quality Act (California Water Code).
 - c. California Hazardous Waste Control Law.
 - d. Resource Conservation and Recovery Act (RCRA).
- B. Recovery of Fines or Penalties.
 - 1. Payment of fines or penalties by the IRWD due to enforcement actions of other regulatory agencies based upon a violation by the IRWD whose cause can be established as the discharge of any user which is in violation of any provisions of this ordinance or a wastewater discharge permit shall entitle the IRWD to recover from the user all cost and expenses, including, but not limited to the full amount of fines and penalties which the IRWD has been subjected to.
 - 2. Each violation shall constitute a new and separate violation and shall be subject to the fines and penalties contained herein.
- C. Civil Liability
 - 1. Pursuant to the authority of California Government Code Sections 54739-54740, any user, permittee, discharger or other person who violates any provision of this ordinance, any wastewater discharge permit condition, prohibition or effluent limitation, or any order, compliance schedule, suspension or revocation shall be civilly liable for a sum not to exceed twenty-five thousand dollars (\$25,000) per violation for each day in which such violation occurs.

909 CIVIL FINES AND PENALTIES (cont)

2. Pursuant to the authority of Act. 33 U.S.C. Section 1251 et seq., any user, permittee, discharger or other person who violates any provision of this ordinance, any wastewater discharge permit condition, prohibition or effluent limitation, or any order, compliance schedule, wastewater discharge permit suspension or revocation shall be civilly liable for a sum not to exceed twenty-five thousand dollars (\$25,000) per violation for each day in which such violation occurs.
3. The IRWD may petition the superior court to impose, assess and recover penalties or other such penalties as the IRWD may impose, assess and recover pursuant to federal and/or state legislative authorization.
4. Notwithstanding any other provisions of law, all civil penalties imposed by the court for a violation of this ordinance shall be distributed to the IRWD.
5. Remedies under this section are in addition to and do not supersede or limit any and all other remedies, civil or criminal, but no liability shall be recovered under this section for any violation for which liability is recovered under Section 909 D. of this ordinance.

D. Administrative Complaint

1. Pursuant to the authority of California Government Code Sections 54740.5 and 54740.6, the IRWD may issue an administrative complaint to any user, permittee, discharger or other person who violates any provision of this ordinance, any wastewater discharge permit condition, prohibition or effluent limitation, or any administrative, suspension or revocation order or other control mechanism.
2. The administrative complaint shall be served by personal delivery or certified mail on such person and shall inform the person that a hearing shall be conducted, within sixty (60) days following service. The administrative complaint will allege the act or failure to act that constitutes the violation(s), set forth the provisions of law authorizing civil liability to be imposed and the proposed civil penalty. The matter shall be heard by the General Manager or his designee. The person to whom an administrative complaint has been issued may waive the right to a hearing, in which case a hearing shall not be conducted.
3. At the hearing, the person shall have an opportunity to respond to the allegations set forth in the administrative complaint by presenting written or oral evidence. The hearing shall be conducted in accordance with the procedures established by the General Manager and approved by the IRWD's General Counsel.
4. After the conclusion of the hearing, the General Manager's designee shall submit a written report to the General Manager setting forth a brief statement of the facts found to be true, a determination of the issues presented, conclusions and a recommendation. Upon receipt of the written report, the General Manager shall make his determination and should he find that grounds exist for assessment of a civil penalty, he shall issue his decision and order in writing within thirty (30) calendar days after the conclusion of the hearing. If not appealed, the order shall be final thirty-one (31) days after it is served on the person.
5. A person dissatisfied with the decision of the General Manager may appeal to the Board pursuant to Section 913 of this ordinance within thirty (30) days of notice of the General Manager's decision.
6. If, after the hearing or appeal, if any, it is found that the person has violated reporting or discharge requirements or other provisions of the this ordinance, the General Manager or Board may assess a civil penalty against that person.
7. In the determination of the amount of the civil penalty, all relevant circumstances may be taken into consideration, including, but not limited to, the extent of harm caused by the violation, the economic benefit derived through any non-compliance, the nature and persistence of the violations, the length of time over which the violation occurs and the corrective action(s), if any, attempted or taken by the person.

909 CIVIL FINES AND PENALTIES (cont)

8. Civil penalties may be assessed as follows:
 - a. In an amount which shall not exceed two thousand dollars (\$2,000) for each day for failing or refusing to furnish technical or monitoring reports.
 - b. In an amount which shall not exceed three thousand (\$3,000) for each day for failing or refusing to timely comply with any compliance schedule
 - c. In an amount which shall not exceed five thousand dollars (\$5,000) per violation for each day for discharges in violation of any waste discharge limitation, wastewater discharge permit condition, other control mechanism or requirement issued, reissued or adopted by the IRWD.
 - d. In an amount which does not exceed ten dollars (\$10) per gallon for discharges in violation of any suspensions, cease and desist order or other orders, or prohibition issued, reissued or adopted by the IRWD.
9. Payment of civil penalties shall be due within thirty (30) days of the date of the order assessing the penalties becomes final. The amount of any administrative civil penalties imposed which have remained delinquent for a period of sixty (60) days from the date they are due shall constitute a lien against the real property of the discharger from which the discharge resulting in the imposition of the penalty originated. The lien shall have no force and effect until recorded with the county recorder and when recorded shall have the force and effect and priority of a judgment lien and continue for ten (10) years and be renewable in accordance with law.
10. Copies of the administrative order shall be served by personal service or by registered mail upon the party served with the administrative complaint and upon other persons who appeared at the hearing and requested a copy of the order.
11. Any party aggrieved by a final order issued by the Board after granting review of the order of the General Manager may obtain review of the order of the Board in the Superior Court, by filing in the court a petition for writ or mandate within thirty (30) days following the service of a copy of the decision and order issued by the Board.
12. Any party aggrieved by a final order issued by the General Manager, for which the Board denies review, may obtain review of the order of the General Manager in the Superior Court, by filing in the court a petition for writ of mandate within thirty (30) days following service of a copy of a decision and order denying review by the Board.
13. No administrative civil penalties shall be recoverable under this section for any violation for which civil liability is recovered under Section 909 C. of this ordinance.

910 CRIMINAL PENALTIES

- A. Any person who violates any provision of this ordinance is guilty of a misdemeanor, which upon conviction is punishable by a fine not to exceed one thousand dollars (\$1,000) or imprisonment for not more than thirty (30) days or both.
- B. Each violation shall constitute a new and separate violation and shall be subject to the penalties contained herein.

911 PUBLIC NUISANCE

- A. Discharge of wastewater in a manner that is in noncompliance or violation of this ordinance or of any order issued by the IRWD, in accordance with this ordinance, shall hereby be declared a public nuisance and shall be corrected or abated as directed by the IRWD.
- B. Any person creating a public nuisance is guilty of a misdemeanor and is subject to the criminal penalties identified in Section 910 of this ordinance.

912 APPEALS TO THE GENERAL MANAGER

A. General

1. Any user affected by a decision, action or determination made by IRWD staff may file with the General Manager a written request for an appeal hearing.
2. Request must be made within fifteen (15) days of the mailing of the original decision.
3. Request for hearing shall set forth details of all facts supporting the appellant's request for hearing.

B. Notice

1. The General Manager shall, within fifteen (15) days of receiving the request for appeal provide written notice to the user of the hearing date, time, and place.
2. The hearing time shall not be more than thirty (30) days from the mailing of such notice by certified mail to the appellant unless a later date is agreed to by the appellant.
3. If the hearing is not held within the time set due to actions of the appellant, then the IRWD's decision shall be deemed final.

C. Hearing

1. The appellate shall have the opportunity to present information supporting its position concerning the IRWD's original decision, action or determination.
2. The hearing shall be conducted in accordance with procedures established by the General Manager and approved by the IRWD's General Counsel.

D. Written Determination

1. After the hearing the General Manager shall make a determination whether to uphold, modify or reverse original decision, action or determination as issued by IRWD staff.
2. This decision shall be put into writing within a brief statement of facts found to be true, the determination of the issues presented, and the findings.
3. The final determination of the General Manager upon his approval shall be executed as the order.
4. A copy shall be mailed or delivered to the appellant.
5. The order of the General Manager shall be final in all respects fifteen (15) days after it is mailed to the appellant, unless appealed under Section 913 of this ordinance.

E. Wastewater Discharge Permit Suspension/Revocation Appeals

1. Appeals regarding wastewater discharge permit suspension or revocation are covered under Section 905 and Section 913 as specified in this ordinance.

913 APPEALS TO THE BOARD

A. General

1. The user may, within thirty (30) days after the date of notification of the General Manager's order upholding the IRWD's determination, file a written appeal to the Board.
2. A fee of one hundred dollars (\$100) shall accompany the written appeal which shall be refunded if the Board of Directors reverses or modifies the order of the General Manager.
3. A request for appeal to the Board shall set forth details of the past record and that new arguments cannot be raised on appeal to the Board that could have been, but were not, raised in the prior appeal to the General Manager.
4. Pending the hearing on appeal, the user shall not be entitled to discharge into sewerage facilities beyond the effective date of the original order determined by the General Manager, unless it has been determined by the General Manager that the user is pursuing good faith arguments and approves such discharge.

B. Notice

1. The Board Secretary, within fifteen (15) days of receiving the request for appeal, will provide written notice to the user of the hearing date, time and place.
2. The hearing date shall not be more than forty-five (45) days from the mailing of such notice by certified mail to the appellate unless a later date is agreed to by the appellant.
3. If the hearing is not held within the time set due to action of the appellant, the General Manager's decision shall be deemed final.

C. Hearing

1. The appellant shall have the opportunity to present information supporting its position concerning the General Manager's determination.
2. The hearing shall be conducted in accordance with procedures established by the Board and approved by the IRWD's General Counsel.

D. Written Determination

1. After the hearing, the Board shall make a determination whether to uphold, modify or reverse the original decision, action or determination as ordered by the General Manager.
2. The decision of the Board shall be reduced to writing within thirty (30) days after the hearing.
3. It shall contain a brief statement of facts found to be true, the determination of the issues presented, and the findings. The decision shall be submitted to the appellant.
4. The order of the Board shall be final upon its adoption.

914 JUDICIAL REVIEW

A. Purpose and Effect

1. Pursuant to Section 1094.6 of the California Code of Civil Procedure, the time in which a user may bring an administrative mandamus action shall be limited to ninety (90) days following the final decision in the adjudicative administrative hearing in question.

B. Time Limit for Judicial Review

1. Judicial review of any decision of the IRWD's Board may be made pursuant to Section 1094.5 of the California Code of Civil Procedure only if the petition for writ of mandate is filed no later than ninety (90) day following the date on which any decision becomes final.

C. Preparation of Records

1. The complete record of the proceedings shall be prepared by the IRWD and shall be delivered or mailed to the petitioner within one hundred-ninety (190) days after they have filed a written request.
2. The IRWD shall recover from the petitioner its actual costs for preparing and transcribing the record.

D. Extension

1. If the petitioner files a request for the record within ten (10) days after the date the decision becomes final, the time within which a petition may be filed, pursuant to Section 1094.5 of the California Code of Civil Procedures, shall be extended to no later than thirty (30) days following the date on which the record is delivered or mailed, by the IRWD, to the petitioner or the petitioner's attorney of record, if appropriate.

E. Notice

1. In making a final decision, the IRWD shall provide notice to the user whose wastewater discharge permit has been denied, suspended or revoked, that the time in which judicial review must be sought is governed by Section 1094.6 of the California Code of Civil Procedures.

F. This section does not apply to action taken under Section 909 of this ordinance.

915 PAYMENT AND COLLECTION OF FEES AND CHARGES

A. Except as otherwise provided, all fees and charges are due and payable upon receipt of an invoice or notice thereof. All such amounts are delinquent if unpaid forty-five (45) days after date of invoice or notice.

B. Any invoice or notice that becomes delinquent may have added to it an assessment in accordance with the following:

1. Forty-six (46) days after the date of invoice or notice, an assessment of ten percent (10%) of the base amount, not to exceed a maximum of \$1,000.
2. Ninety (90) days after the date of invoice or notice, a total of twenty-five percent (25%) of the base amount, not to exceed a maximum of \$2,500.

C. Any invoice or notice that is outstanding and unpaid after ninety (90) days may be cause for immediate initiation of wastewater discharge permit revocation proceedings or immediate wastewater discharge permit suspension.

D. Delinquent assessments under this section may not accrue to those invoices or notices successfully appealed, provided the IRWD received written notice of appeal prior to the payment due date.

E. Payment of disputed fees and charges are still required by the due date during review of any appeal submitted by permittee.

F. This section does not apply to Section 909 of this ordinance.

916 RECOVERY OF ENFORCEMENT COSTS

In the event a user fails to comply with any of the terms and conditions of this ordinance, wastewater discharge permit, administrative order, wastewater discharge permit suspension or revocation, other control mechanism or any other enforcement action, the IRWD shall be entitled to reasonable attorney's fees and costs which may be incurred during enforcement of any terms and conditions with or without filing proceedings in court.

917 FINANCIAL SECURITY CONDITIONS

A. Compliance Deposit

1. Users that have been subject to enforcement actions and/or fees, charges, penalties or fines may be required to deposit with the IRWD an amount determined by the General Manager as necessary to guarantee payment of all charges, fees, costs and expenses that may be incurred in the future.
2. A compliance deposit shall be received by the IRWD before the IRWD either issues a wastewater discharge permit, other control mechanism or grants the user permission for further discharge to sewerage facilities.

B. Delinquent Accounts

1. Any user who fails to make payment in full of all fees, charges, penalties or fines assessed by the IRWD including reconciliation amounts, delinquency fees, and other costs or fees may be required to obtain the issuance of an amendment to their wastewater discharge permit.

C. Bankruptcy

1. Any user filing any legal action in any court of competent jurisdiction, including the United States Bankruptcy Court, for purposes of discharging its financial debts or obligations or seeking court-ordered protection from its creditors, shall within ten (10) days of filing such action, apply for and obtain the issuance of an amendment to its wastewater discharge permit by the IRWD.

D. Wastewater Discharge Permit Amendments

1. An amendment issued to the user's wastewater discharge permit shall be in accordance with the provision of this ordinance.

E. Security Deposit

1. An amendment to a wastewater discharge permit issued in accordance with this ordinance may be conditional upon the permitted user depositing financial security in an amount equal to the total fees and charges from the preceding year.
2. Such a deposit shall be used to guarantee payment of all fees and charges incurred for future services and sewerage facilities provided by the IRWD and shall not be used by the IRWD to recover outstanding fees and charges incurred prior to the user filing and receiving protection from creditors in the United States Bankruptcy Court.

F. Return of Security Deposit

1. If the user makes full payment in time of all fees and charges incurred over a period of two (2) years following the issuance of an amendment to the user's wastewater discharge permit prescribed by this ordinance, the user's security deposit shall be returned or credited to the user's account.

918 REPORT OF ANALYSIS

All collected data from inspection and monitoring sampling conducted by the IRWD may be reported to the user. This data, if given to the user, shall be kept by the user and the IRWD and made available during inspections by the IRWD or any other regulatory agency.

919 DAMAGE TO FACILITIES OR INTERRUPTION OF NORMAL OPERATIONS

- A. When a discharger of wastes causes an obstruction, interference, damage, or other impairment to sewerage facilities or to the operation of sewerage facilities, the IRWD may assess the costs against the user for the work required to clean, replace or repair the sewerage facility together with expenses incurred to resume normal operations. This shall also be grounds for wastewater discharge permit revocation. A service charge of twenty-five percent (25%) of costs shall be added to the costs and charges to cover the IRWD's overhead, including administrative personnel and record keeping. The total amount shall be payable within forty-five (45) days of invoicing by the IRWD.
- B. If it can be shown that the discharge of any user is the cause of the IRWD violating its NPDES permit and pretreatment requirements established by any Regulatory Agency or incurring additional expenses or suffering losses or damage to IRWD sewerage facilities, then that user shall be responsible for any costs, expenses, or assessments incurred by the IRWD, made by other agencies or a court.
- C. Where two or more dischargers cause a single and indivisible harm to sewerage facilities, each is jointly and severally liable for the damages. The burden of proof is on the dischargers to demonstrate that the harm is divisible.

920 INDUSTRIAL WASTE PASS THROUGH

- A. If an industrial waste discharge results in a "pass through" event in sewerage facilities, all costs associated with the event, including but not limited to treatment costs, fines, regulatory fines, and other indirect costs may be charged against the user.
- B. The user shall submit plans which prevent future recurrences to the satisfaction of the IRWD.
- C. A second occurrence shall be grounds for wastewater discharge permit revocation without the right of appeal.

921 BATCH DUMPS

- A. When the IRWD determines that a user has discharged concentrated noncompatible wastes into a sewerage facility in a manner or method that is not approved by the IRWD, any enforcement action may be taken as set forth in this ordinance.
- B. The user shall be subject to wastewater discharge permit suspension or revocation in accordance with this ordinance as well as any other legal enforcement penalties or remedies available to the IRWD.

922 PUBLICATION OF USERS IN SIGNIFICANT NONCOMPLIANCE (SNC)

- A. To comply with the requirements of 40 CFR 403, the IRWD shall annually publish the names of all industrial users that are in SNC of federal pretreatment standards.
- B. Publication of this SNC notice shall be in the newspaper of general circulation that provides meaningful public notice within the IRWD service areas.
- C. The determination of SNC is based upon the definition set forth in Section 202 B.88. of this ordinance.

**ARTICLE 10
FEES AND CHARGES**

1001 APPLICATION FEE

- A. All application fees shall be in an amount as established by the IRWD.
- B. Payment of the application fee must be received before the issuance of a new or renewal of a wastewater discharge permit.
- C. User shall pay any delinquent invoices in full, prior to the wastewater discharge permit renewal.

1002 ANNUAL WASTEWATER DISCHARGE PERMIT FEE

- A. The annual wastewater discharge permit fee shall be in an amount as established by the IRWD.
- B. The annual wastewater discharge permit fee shall be due on or before the date set by the IRWD.

1003 INSPECTION, MONITORING AND SAMPLING CHARGES

Any and all costs incurred by the IRWD to inspect, monitor and sample a user for the purpose of assuring compliance with this ordinance, the user's wastewater discharge permit, other control mechanism or other regulations shall be paid for by the user only upon receipt of an invoice or bill from the IRWD or its representative.

1004 DELINQUENCY FEES

- A. Any fees that become delinquent may have added to it an amount as set forth in Section 915 of this ordinance.
- B. Any delinquent fee and all assessments including court costs and legal fees thereon may be collected by lawsuit in the name of the IRWD.

1005 ADDITIONAL FEES AND CHARGES

- A. The user will be required to pay all applicable additional fees and charges that are established by the IRWD only upon receipt of an invoice or bill.
- B. Any wastewater discharge permit issued for a location where the user is not the property owner, may be conditioned upon depositing financial security to guarantee payment of all additional fees and charges to be incurred, in accordance with the provisions of Section 917 of this ordinance.

1006 RECORDING OF FEES AND CHARGES

- A. The IRWD may keep a permanent record and account of all fees and charges received under this ordinance.
- B. Record information shall include, but is not limited to:
 - 1. Name and address of user.
 - 2. Date and amount of fee or charge.
 - 3. Purpose for which fees or charges were paid.

**ARTICLE 11
SEVERABILITY**

1101 SEVERABILITY

- A. If any provisions of this ordinance or the application thereof to any users or circumstances is held invalid, unenforceable, or unconstitutional by any court of competent jurisdiction, the remainder of this ordinance or the application of such provision to other users or other circumstances shall not be affected.
- B. If any section, subsection, clause or phrase of this ordinance is for any reason held to be invalid, unenforceable or unconstitutional by any court of competent jurisdiction, such decision shall not affect the remaining portions of this ordinance. The Board declares that they would have passed said ordinance by section, subsection, sentence, clause or phrase thereof.

**ARTICLE 12
REPEAL**

1201 REPEAL

- A. Ordinance No. 96-12-1 adopted by LAWD is hereby repealed in its entirety.
- B. All ordinances or parts of ordinances inconsistent with this ordinance are hereby repealed to the extent that they are inconsistent with the provisions of this ordinance.

**ARTICLE 13
EFFECTIVE DATE**

1301 EFFECTIVE DATE

- A. This ordinance shall become effective thirty (30) days after adoption. The Secretary of IRWD is directed to certify to the adoption of this ordinance and to cause a summary hereof to be published in a newspaper of general circulation as required by law.
- B. Amendments to this ordinance shall become effective thirty (30) days after their adoption.

PASSED AND ADOPTED by the Board of Directors of the Irvine Ranch Water District this _____ day of _____, 2011.

IRVINE RANCH WATER DISTRICT

Dated _____

by _____
President

Dated _____

by _____
Secretary

EXHIBIT "B"

SUMMARY OF PROPOSED CHANGES TO IRVINE RANCH WATER DISTRICT WASTE DISCHARGE PRETREATMENT AND SOURCE CONTROL PROGRAM, AS SET FORTH IN AN ORDINANCE OF REGULATIONS FOR THE DISCHARGE OF WASTEWATER TO SEWERAGE FACILITIES OF THE IRVINE RANCH WATER DISTRICT THAT ARE IN THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SERVICE AREA

BACKGROUND

The Waste Discharge Pretreatment and Source Control Ordinance (the "Ordinance") regulates sewer use and wastewater discharges in compliance with applicable state and federal regulations. The Ordinance also establishes quality and quantity limitations on all wastewater discharges and imposes pretreatment requirements on the degree of waste authorized to be discharged to Irvine Ranch Water District ("IRWD") sewerage facilities. The Ordinance provides for the issuance of permits to impose additional case-by-case requirements as appropriate and establishes fees and other penalties for noncompliance and/or violations. The Ordinance establishes specific facility requirements, inspection, monitoring, sampling, notification and reporting requirements. For the purposes of the Ordinance, IRWD provides water distribution and wastewater collection and treatment services to residential and commercial establishments served by the portion of IRWD's collection system (generally, the City of Lake Forest area) (the "SOCWA Service Area") that delivers wastewater to the regional facilities of the South Orange County Wastewater Authority ("SOCWA"). Wastewater from IRWD's SOCWA Service Area is treated at the IRWD's Los Alisos Wastewater Reclamation Plant. Any unused treated wastewater is discharged to the ocean via SOCWA's Aliso Creek Ocean Outfall. SOCWA, as the owner of the ocean outfall is the lead agency responsible for the implementation of the provisions contained in the Ordinance. An interagency agreement has been adopted between the IRWD and SOCWA that defines each agency's duties and responsibilities in the implementation of the Ordinance.

PRETREATMENT AND SOURCE CONTROL ORDINANCE

Revisions are made periodically to the Ordinance to maintain compliance with changing Federal pretreatment regulations and to update administrative provisions. The majority of the currently proposed changes reflected in the Ordinance are administrative. The following summary reflects the revisions that have been made by the Ordinance (IRWD Ordinance No. 2011- xx) to the previous Waste Discharge Pretreatment and Source Control Program (Ordinance 96-12-1).

SUMMARY OF CHANGES TO ORDINANCE

Throughout the document, all references to "SOCRA" (previous acronym) have been changed to "SOCWA." In 2000, IRWD's predecessor water and wastewater agency for the SOCWA Service Area, Los Alisos Water District ("LAWD"), was consolidated into IRWD, and all references to "Los Alisos Water District" or "LAWD" have been changed to "Irvine Ranch Water District" or "IRWD." The term "sludge" has been revised to "biosolids".

Section 202-Definition of Terms. Several definitions have been added or revised, including Best Management Practices, Categorical Industrial User, Class IV User, Company Authorized Representative, Control Authority, Daily Maximum, Daily Maximum Limit, Existing Source, Monthly Average, North American Industry Classification System, California Environmental Protection Agency, and expanded definition of Significant Industrial User.

Section 303-Enforcement Powers. Warning Notice of Non-compliance letter has been included as an additional low-level enforcement action.

Section 406-Inspections, Monitoring and Enforcement. Clarification has been made in the communications timelines that apply if IRWD performs emergency enforcement actions.

Section 501- Prohibited Discharges. Clarification has been made in the applicability of discharge prohibitions.

Section 510-Limitations on Trucked or Hauled Wastes. A prohibition has been added on discharge of trucked or hauled waste directly or indirectly to sewerage facilities without written approval, permit, or control mechanism.

Section 513-Limitation on Unpolluted Water. A limitation has been added on unpolluted water and commercial swimming pool discharges directly or indirectly to sewerage systems without IRWD approval.

Section 515-Wastewater Strengths and Characteristics. Changes have been made to insert additional discharge prohibitions to the sewerage system, including concrete, materials with excessive biological oxygen demand, detergents, and surface active agents.

Section 518-Federal Requirements. The changes reiterate that federal requirements must be followed if they are more stringent than state pretreatment requirements.

Section 612-Class IV Special Wastewater Discharge (SWD) Permit. Language has been added to specify that a user proposing to discharge diverted urban nuisance water must complete the requirements of the “Nuisance Flow Diversion Policy” and receive a permit, and that dischargers of hauled waste proposed to be discharged in IRWD sewers must obtain a permit from IRWD.

Section 617-Wastewater Discharge Permit Terms, Conditions, and Limitations. Language has been added allowing the user to request modification to the terms, conditions and limitations of an issued waste discharge permit.

Section 620-IRWD’s Right of Revision. Language has been added allowing IRWD to modify a user’s permit at any time.

Section 703-Monitoring and Metering Facilities. Language has been added requiring that the user collect samples that are representative of the user’s discharge and maintain monitoring equipment in clean, working order.

Section 802-Self-Monitoring and Reporting. Language has been added introducing a certification statement for non-significant categorical industrial users.

Section 808-Periodic Compliance Report. Language has been added clarifying when reports by Class 1 users are to be submitted.

Section 811-Sample Collection. Language has been added specifying which constituents should be collected by the 24 hour composite method and which constituents should be grab samples.

November 28, 2011
Prepared and
Submitted by: L. Bonkowski
Approved by: P. Cook



CONSENT CALENDAR

MINUTES OF REGULAR BOARD MEETING

SUMMARY:

Provided are the minutes of the November 14, 2011 Regular Board Meeting.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE NOVEMBER 14, 2011 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" - Regular Board Meeting Minutes

EXHIBIT "A"

MINUTES OF REGULAR MEETING – NOVEMBER 14, 2011

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order at 5:00 p.m. by President LaMar on November 14, 2011 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

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

Directors Absent: None.

Also Present: General Manager Cook, Senior Director of Finance Cherney, Senior Director of Operations Pedersen, Director of Engineering Burton, Treasurer Jacobson, Secretary Bonkowski, Legal Counsel Arneson, Director of Water Resources Heiertz, Director of Public Affairs Beeman, Director of Human Resources Wells, Director of Administrative Services Mossbarger, Director of Water Quality Hills, Ms. Kirsten McLaughlin, Mr. Paul Weghorst, Ms. Fiona Sanchez, Mr. Dave Lochridge, Mr. Jim Reed, Mr. Bruce Newell, and other members of the public and staff.

WRITTEN COMMUNICATION: None.

ORAL COMMUNICATION:

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

With respect to the Orange County Basin Groundwater Conjunctive Use Program being coordinated by Municipal Water District of Orange County (MWDOC) and Orange County Water District (OCWD), a Notice of Completion was approved by the OCWD Board of Directors on March 19, 2009. Metropolitan Water District has given notice to OCWD to extract 22,000 acre feet in fiscal year 2009/10. The extraction is being performed by agencies that constructed conjunctive use wells under this program. IRWD is not a participant. This was confirmed by Mr. Cook.

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

annexation requests. The MOU was approved by the OCWD Board on July 21, 2010. This was confirmed by Mr. Cook.

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

ITEMS RECEIVED TOO LATE TO BE AGENDIZED: None.

PRESENTATION

RESOLUTION OF COMMENDATION FOR DAVE LOCHRIDGE

General Manager Cook presented a resolution of commendation to Mr. Dave Lochridge for his 20 years of service to the District. On MOTION by Withers, seconded and unanimously carried, THE FOLLOWING RESOLUTION WAS ADOPTED BY TITLE:

RESOLUTION NO. 2011-45

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

CONSENT CALENDAR

On MOTION by Withers, seconded and unanimously carried, CONSENT CALENDAR ITEMS 4 THROUGH 10 WERE APPROVED AS FOLLOWS:

4. MINUTES OF REGULAR BOARD MEETING

Recommendation: That the minutes of the October 24, 2011 Regular Board Meeting be approved as presented.

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

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

6. RESOLUTION OF COMMENDATION FOR JOHNNIE JOHANNESSEN

Recommendation: That the Board adopt the following resolution by title commending Johnnie Johannessen for his service to the District.

RESOLUTION NO. 2011-46

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

7. HANDY CREEK BRIDGE DISTRIBUTION MAIN RELOCATION FINAL ACCEPTANCE

Recommendation: That the Board accept construction of the Handy Creek Bridge Distribution Main Relocation, project 11607 (3241); authorize filing of a Notice of Completion; and authorize the payment of the retention 35 days after the date of recording the Notice of Completion.

8. 2012 STATE LEGISLATIVE PLANNING UPDATE

Recommendation: Receive and file.

9. AMENDED AND RESTATED 401(A) PLAN

Recommendation: That the Board approve the amended and restated IRS Section 401(a) Money Purchase Pension Plan and adopt a resolution adopting amendments with respect to the Great-West Retirement Services Section 401(a) Money Purchase Pension Plan for Governmental Employers.

RESOLUTION NO. 2011-47

RESOLUTION OF THE BOARD OF DIRECTORS OF THE
IRVINE RANCH WATER DISTRICT ADOPTING
AMENDMENTS WITH RESPECT TO THE
GREAT-WEST RETIREMENT SERVICES
SECTION 401(a) MONEY PURCHASE PENSION PLAN
FOR GOVERNMENTAL EMPLOYERS

10. TERMINATION OF EXECUTIVE 401(A) PLAN

Recommendation: That the Board approve the termination of IRS Section 401(a) Executives' Profit Sharing Plan and Trust and adopt a resolution terminating the Plan.

RESOLUTION NO. 2011-48

RESOLUTION OF THE BOARD OF DIRECTORS OF THE
IRVINE RANCH WATER DISTRICT
WITH RESPECT TO THE TERMINATION OF THE
EXECUTIVES' PROFIT SHARING PLAN AND TRUST

ACTION CALENDAR

PROPOSED CONSUMER PRICE INDEX CHANGES TO SALARY GRADE SCHEDULE AND EMPLOYEE COST OF LIVING ADJUSTMENTS AND ADDITIONAL EMPLOYEE CONTRIBUTIONS TO CALIFORNIA PUBLIC EMPLOYEES RETIREMENT SYSTEM

General Manager Cook reported that the Bureau of Labor Statistics has released the Consumer Price Index (CPI) for the period ending September 2011, which reflects a 3.09% increase from September 2010 to September 2011. Mr. Cook said that last year the Board agreed to carry forward the negative 0.62% adjustment in the 2010 annual Cost of Living Adjustment (COLA) for one year and apply this negative adjustment to the 2011 COLA resulting in a 2.47% adjustment.

Mr. Cook said that based on discussion in the Finance and Personnel Committee meeting on November 1, 2011, the recommendations are as follows to be effective December 1, 2011: 1) approve a Cost of Living Adjustment of 2.47% for eligible employees; 2) approve an increase to the Salary Range Schedule; and 3) increase the District employee contributions to the California Public Employees Retirement System (CalPERS) by 2% of salary. This would increase regular full-time employee contributions from 3% to 5% of salary; senior management contributions from 5% to 7% of salary; and executive management contributions from 6% to 8% of salary.

Director Swan said that this item was reviewed by the Finance and Personnel Committee on November 1, 2011. He made a motion, which was seconded by Director Matheis, to approve the recommendation. Prior to taking a Board vote on this item, President LaMar said that since the Board is in the midst of a review of the District's retirement and health benefits, he would like to take additional time to review this item prior to implementing a change to the employee's contribution to CalPERS. President LaMar suggested approving the COLA this evening, and bringing back the employee contribution percentage for CalPERS at a future Board meeting. Both Director Matheis and Director Withers concurred with President LaMar's suggestion. In response to Director Reinhart's comment, Mr. Cook said future shifts in the responsibility for the CalPERS employee contribution had been communicated to the employees. Director Swan provided a summary of the last few years of changes relative to the COLA and employee contribution to CalPERS. Director Swan amended his prior motion, moving instead to defer both the COLA adjustment and the employer paid member contribution changes until the retirement and health benefits study is complete. The amended motion was seconded by Matheis. Prior to taking a Board vote on this amended motion, President LaMar said that he did not want to defer the COLA adjustment until the study is finalized, which could be April or May of 2012, and recommended approving it tonight. Following discussion, General Manager Cook said that as a practice, COLA is typically adopted at this time of the year. Director Reinhart made a motion to amend the pending motion to approve COLA in March 2012, implement a 2% CalPERS contribution, and provide employees a schedule if there are any changes to the contribution level. The motion failed for lack of a second. Director Matheis said she believed this item consists of two separate issues, and asked Director Swan to repeat the recommendation from the Finance and Personnel Committee meeting. Director Swan said that the Committee recommended Board approval of the COLA as well as the 2% CalPERS contribution shift. Following discussion, Director Reinhart said he would like to offer a substitute to the pending motion, to proceed with the recommended COLA increase effective December 1, 2012 and defer the employee contribution actions to March 1, 2012. Director

Swan agreed and his motion and second were withdrawn. On MOTION by Reinhart, seconded by Swan, THE SUBSTITUTE MOTION WAS UNANIMOUSLY CARRIED AS FOLLOWS: 1) THE BOARD APPROVED A 2.47% INCREASE TO THE SALARY GRADE RANGES AND A 2.47% COST OF LIVING ADJUSTMENT (COLA) FOR EACH ELIGIBLE EMPLOYEE; 2) STAFF WAS DIRECTED TO NOTIFY EMPLOYEES THAT ON MARCH 1, 2012, THE BOARD WILL CONSIDER AN INCREASE OF AT LEAST 2% OF THE EMPLOYEE PAID CONTRIBUTIONS TO CALPERS, AND 3) THE BOARD ADOPTED THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2011-49

RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE RANCH
WATER DISTRICT, RESCINDING RESOLUTION NO. 2011-31
AND ESTABLISHING A REVISED SCHEDULE OF POSITIONS
AND SALARY RATE RANGES

WIRELESS NETWORK UPGRADE

The District provides an open access public Wi-Fi network originally intended for the limited use of visitors and consultants who need internet access while working or visiting the District. As Wi-Fi enabled devices have become more ubiquitous with staff and as the District continues to move many of its applications to a web-based architecture, staff identified that its current open access public network is insufficient to meet its security needs and support for efficient use of computing devices. Wireless site surveys were conducted at the Sand Canyon Headquarters and the Operations Center to determine the requirements for providing secure Wi-Fi coverage. The site survey reports indicate that the existing Wi-Fi open access coverage provided for public use does not provide adequate secure Wi-Fi coverage required for both locations, and recommended a configuration that will provide reliable and secure Wi-Fi coverage. On MOTION by Swan, seconded and unanimously carried, THE BOARD AUTHORIZED THE ADDITION OF A GENERAL PLANT EXPENDITURE IN THE AMOUNT OF \$87,000 TO THE FY 2011-12 OPERATING BUDGET AND AUTHORIZED THE GENERAL MANAGER TO EXECUTE A CONTRACT WITH SIRIUS COMPUTER SOLUTIONS IN THE AMOUNT OF \$77,028 TO PURCHASE AND IMPLEMENT THE WIRELESS NETWORK UPGRADE.

INCREASE IN TACTICAL INCENTIVE FUNDING FOR FY 2011-12

The Water Conservation Business Plan included a "Tactical Incentives" element to encourage customers to install water conservation devices. Customer participation has been very strong in the residential program. This, combined with changes in the way IRWD's fiscal year co-funding is applied by Metropolitan Water District of Southern California (MWD), has resulted in available funding already being more than 70% depleted. Staff proposes that an additional \$200,000 be allocated to regional residential program Tactical Incentives in FY 2011-12. An amount of \$100,000 in the approved Operating Budget can be reallocated from industrial to residential incentives due to some projects being deferred this year. On MOTION by Matheis, seconded and unanimously carried, THE BOARD AUTHORIZED AN INCREASE OF \$100,000 IN THE FY 2011-12 OPERATING BUDGET USING AVAILABLE OVER-ALLOCATION REVENUES, AND AUTHORIZED THE GENERAL MANAGER TO EXECUTE AMENDMENT NO. 10 TO THE AGREEMENT FOR PARTICIPATION AND CO-FUNDING

BY IRVINE RANCH WATER DISTRICT IN SPECIFIED MUNICIPAL WATER DISTRICT OF ORANGE COUNTY REBATE PROGRAMS TO ADD \$200,000 FOR COST-EFFECTIVE TACTICAL INCENTIVE WATER USE EFFICIENCY MEASURES IN FY 2011-12.

ENTERPRISE RESOURCES PLANNING SYSTEM IMPLEMENTATION UPDATE AND CONSULTANT VARIANCE APPROVAL

General Manager Cook reported that the District is currently live on both the first wave of implementation of the Oracle Enterprise Resource Planning (ERP) software, which is focused on financial management and human resources, and on the second wave of implementation of the ERP software, which is focused on payroll, employee self-service and benefits administration. The system is now functioning on a transactional basis, but requires additional stabilization and optimization through business intelligence and reporting capabilities in order to achieve the District's expected results.

Using a PowerPoint presentation, Senior Director of Finance Cherney summarized the benefits of the ERP system including: 1) improved management visibility and accountability, including more accurate and timely financial statements through easy access to reliable real-time data and information; 2) better planning and visibility into funding needs through improved budget-to-actual reporting; 3) increased operational efficiencies utilizing up-to-date project accounting; 4) improved administrative labor efficiencies by minimizing staff time spent extracting and reformatting data; 5) audit compliance through reliable data and robust, flexible reporting capabilities; and 6) enhanced security through improved audit trails. Ms. Cherney reviewed the waves of the implementation noting that staff is utilizing a new chart of accounts to improve system performance reporting without the use of secondary spreadsheets and databases.

Ms. Cherney said that the District requires variances to both the existing AST contracts for additional services. She said that Variance No. 1 is for Remote Managed Services that will provide additional resources to resolve Oracle application and database issues as well as work with the District's technical resources to achieve consistent database optimization. This variance is in the total sum of \$134,400. She further said that Variance No. 2 is for implementation services which will provide additional Wave 1 and Wave 2 stabilization services to work with District staff and Oracle on various transactional items as well as to design and implement additional data elements and dashboard reporting for the Oracle Business Intelligence system, which will ultimately become the District's primary source of reporting on financial and other data. This variance is in the total sum of \$352,100.

Director Swan reported that this item was reviewed and approved by the Finance and Personnel Committee on November 1, 2011. On MOTION by Swan, seconded and unanimously carried, THE BOARD APPROVED VARIANCE NO. 2 WITH AST CORPORATION FOR IMPLEMENTATION SERVICES IN THE AMOUNT OF UP TO \$352,100, APPROVED VARIANCE NO. 1 WITH AST CORPORATION FOR ITS REMOTE MANAGED SERVICES CONTRACT IN THE AMOUNT OF UP TO \$134,400, APPROVED EXPENDITURE AUTHORIZATIONS FOR PROJECTS 1278 AND 1660, IN THE SUM OF \$350,000 EACH; AND APPROVED ADDITIONS TO THE FY 2011-12 CAPITAL BUDGET FOR PROJECTS 1278 AND 1660, IN THE SUM OF \$350,000 EACH.

ORDINANCE AMENDING REGULATIONS FOR WASTEWATER DISCHARGES TO IRWD SEWERAGE FACILITIES TRIBUTARY TO SOCWA FIRST READING AND INTRODUCTION

General Manager Cook reported that the current Irvine Ranch Water District (IRWD) regulations to control the discharge of industrial waste to IRWD sewerage facilities tributary to the South Orange County Wastewater Authority (SOCWA) were originally adopted by the Los Alisos Water District (LAWD) in 1996. Mr. Cook said that periodic amendments to these regulations are needed to incorporate the requirements of new state and federal pretreatment regulations and to address changes in administrative procedures.

Hearing no objections, President LaMar asked the Secretary to read the Ordinance by title only, and waived reading of the ordinance. Secretary Bonkowski read the Ordinance by title only as follows:

ORDINANCE OF THE BOARD OF DIRECTORS OF IRVINE RANCH WATER DISTRICT REPEALING ORDINANCE NO. 96-12-1 AND ADOPTING AMENDED REGULATIONS FOR THE DISCHARGE OF THE WASTEWATER TO SEWERAGE FACILITIES OF THE IRVINE RANCH WATER DISTRICT THAT ARE IN THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SERVICE AREA.

Hearing no objections, Director LaMar asked Secretary Bonkowski to place the ordinance on the agenda for the next regular meeting of the Board of Directors for second reading, hearing and adoption.

GENERAL MANAGER'S REPORT

General Manager Cook reminded the Board of the Southern California Water Committee's annual meeting Thursday evening. He said that he invited Mr. Doug Stack from the City of Tustin and Ms. Sharon Landers from the City of Irvine to attend along with staff and the Board.

DIRECTORS' COMMENTS

Director Reinhart reported that he attended an East Orange County Water District meeting, a MWDOC Board workshop, and a WACO meeting.

Director Withers reported on his attendance at the first Board meeting of Concordia University's Public Policy Center which may present a number of opportunities for the District.

Director Swan reported on his attendance at WACO, and an ACWA Special Task Force meeting relative to the EIR portion of the Delta plan. Director Reinhart left at 6:37 p.m.

Director Matheis reported on her attendance at an ISDOC Executive Committee meeting, a MWDOC elected officials forum, and a WACO meeting. She also said she will be attending the upcoming Southern California Water Committee meeting.

Director LaMar reported on his attendance at an OCBC Infrastructure Committee meeting, a MWDOC Board meeting, and a MWDOC Planning and Operations Committee meeting.

ADJOURNMENT

There being no further business, President LaMar adjourned the meeting at 6:50 p.m.

APPROVED and SIGNED this 28th day of November, 2011.

President, IRVINE RANCH WATER DISTRICT

Secretary IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

Legal Counsel - Bowie, Arneson, Wiles & Giannone

November 28, 2011
Prepared and
Submitted by: N. Savedra
Approved by: Paul Cook 

CONSENT CALENDAR

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

SUMMARY:

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

Events/Meetings

Steven LaMar

11/21/11 Monthly meeting with Paul Cook regarding District activities
12/13/11 City of Irvine 40th Anniversary Event

Mary Aileen Matheis

11/17/11 IRWD Long-Term Financing Plan Meeting
11/18/11 Corps of Engineers Discussion Meeting
12/13/11 City of Irvine 40th Anniversary Event

Doug Reinhart

12/13/11 City of Irvine 40th Anniversary Event
12/14-16/11 Colorado River Water Users Association Conference

Peer Swan

10/12-14/11 Water Education Foundation – Northern California Tour

John Withers

12/13/11 City of Irvine 40th Anniversary Event

RECOMMENDATION:

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

LIST OF EXHIBITS:

None.

November 28, 2011
Prepared and Submitted by: Various
Approved by: Paul Cook 

CONSENT CALENDAR

STRATEGIC MEASURES DASHBOARD

SUMMARY:

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

RECOMMENDATION:

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

EXHIBITS:

- Exhibit “A” – Strategic Measures Dashboard
- Exhibit “B” – Dyer Road Wellfield Status
- Exhibit “C” – Reservoir Data

**IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES DASHBOARD**

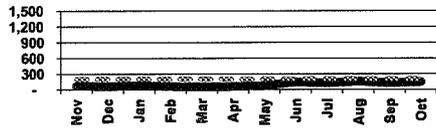
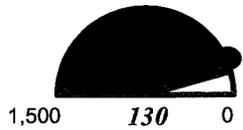
Exhibit "A"

October 2011

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

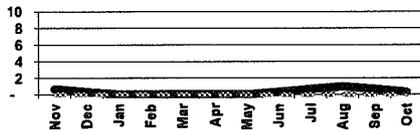
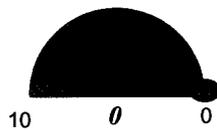
Reliability-Potable/Nonpotable

Target = 200 customer hours out of service this month



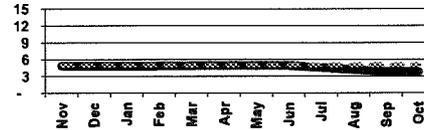
Sewer Spills

Target = 0 Spills this month



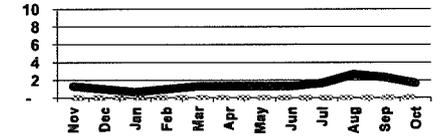
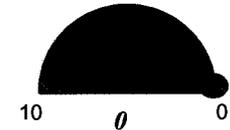
OCSD CORF Flows

Target = 8.80 MGD
CORF flow to OCSD this month



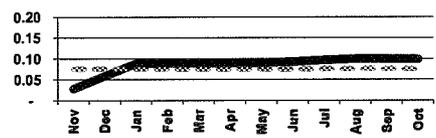
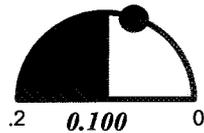
OSHA Recordables

Target = 0 reportable accidents this month



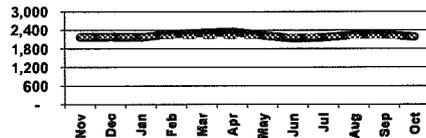
MWRP Energy Cost per kwh

Target = .0792 cost per kWh this month



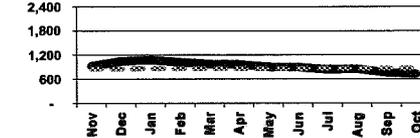
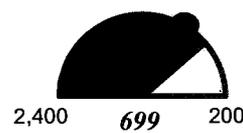
Wastewater Cost

Target = \$2,190/MG processed this month



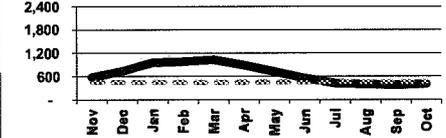
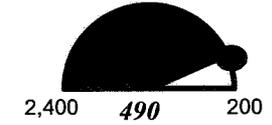
Water System Cost--Potable

Target = \$866/ac-ft delivered this month



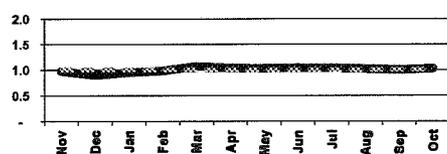
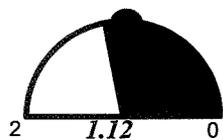
Water System Cost--Nonpotable

Target = \$451/ac-ft delivered this month



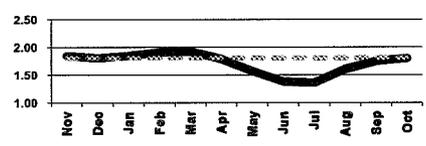
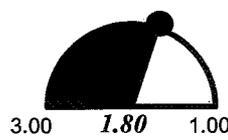
Enterprise Return

Target = 1.0 (net income/goal) last month



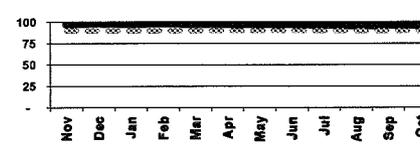
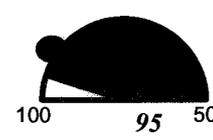
Overhead Ratio

Target = 1.80 (G&A expenses/direct labor) this month



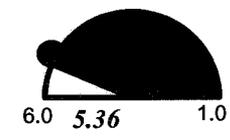
Customer Satisfaction

Target = 90% satisfaction this month



Employee Satisfaction

Target = 5.0 score this month



● Target shown on gauge
00.00 Figure for Current Month

▬ Target shown on trend graph
3-month rolling average

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

Reliability-Potable/Nonpotable

MONTHLY STATUS REPORT

Metric Owner: Water Ops

Definition of Measure:

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

Method:

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

Data Collection

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

Current Issues

1. None

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> November 2010
November 2010	65.83		<i>Thru:</i> October 2011
December 2010	69.17		<i>Goal:</i> 200.00
January 2011	103.20		
February 2011	20.33		
March 2011	59.22		
April 2011	120.60		
May 2011	45.68		
June 2011	283.80		
July 2011	62.33		
August 2011	148.10		
September 2011	176.90		
October 2011	130.00		

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

Sewer Spills

MONTHLY STATUS REPORT

Metric Owner: Gregory Springman

Collection System Manager

Definition of Measure:

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

Method:

Total number of IRWD sewer spills

Data Collection

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

Current Issues

1. June, 2011 - MWRP MPS-3 Forcemain Pigging Operation, blockage occurred at the termination point of the 18" MPS-3 forcemain due to debris accumulation. 250 gals SSO with 250 gals of wastewater contained and recovered.
2. July, 2011-MWRP MPS-3 Forcemain Pigging Operation (2nd Phase), blockage occurred due to same cause. 25 gals SSO with 25 gals of wastewater contained and recovered.
3. August, 2011 - Irvine, 8" VCP. 165 gals SSO with 100% of wastewater contained and recovered. Caused by root intrusion.

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> November 2010
November 2010	0		<i>Thru:</i> October 2011
December 2010	0		<i>Goal:</i> 0
January 2011	0		
February 2011	0		
March 2011	0		
April 2011	0		
May 2011	0		
June 2011	1.00		
July 2011	1.00		
August 2011	1.00		
September 2011	0		
October 2011	0		

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

OCSD CORF Flows

MONTHLY STATUS REPORT

Metric Owner: Wayne Posey

Director of Wastewater Operations

Definition of Measure:

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

Method:

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

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

Data Collection

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

Current Issues

1. None

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> November 2010
November 2010	4.70		<i>Thru:</i> October 2011
December 2010	4.78		<i>Goal:</i> 4.95
January 2011	4.91		
February 2011	4.92		
March 2011	4.92		
April 2011	4.92		
May 2011	4.93		
June 2011	4.95		
July 2011	3.85		
August 2011	3.83		
September 2011	3.83		
October 2011	3.83		

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

OSHA Recordables

MONTHLY STATUS REPORT

Metric Owner: Ken Erwin

District Safety & Security Manager

Definition of Measure:

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

Method:

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

Data Collection

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

Current Issues

1. None

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> November 2010
November 2010	0		<i>Thru:</i> October 2011
December 2010	1.00		<i>Goal:</i> 0
January 2011	1.00		
February 2011	1.00		
March 2011	2.00		
April 2011	1.00		
May 2011	1.00		
June 2011	2.00		
July 2011	2.00		
August 2011	4.00		
September 2011	1.00		
October 2011	0		

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

MWRP Energy Cost per kWh

MONTHLY STATUS REPORT

Metric Owner: Wayne Posey

Director of Wastewater Operations

Definition of Measure:

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

Method:

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

Data Collection

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

Current Issues

1. Information not available at time of reporting.

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> November 2010
November 2010	.09		<i>Thru:</i> October 2011
December 2010	.09		<i>Goal:</i> .08
January 2011	.09		
February 2011	.09		
March 2011	.09		
April 2011	.09		
May 2011	.09		
June 2011	.10		
July 2011	.10		
August 2011	.10		
September 2011	.10		
October 2011	Not available		

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

Wastewater Cost

MONTHLY STATUS REPORT

Metric Owner: Wayne Posey

Director of Wastewater Operations

Definition of Measure:

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

Method:

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

Data Collection

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

Current Issues

1. None

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> November 2010
November 2010	2,206.00	2,363.00	<i>Thru:</i> October 2011
December 2010	2,183.00	2,358.00	<i>Goal:</i> 2,386.00
January 2011	2,155.00	2,355.00	
February 2011	2,492.00	2,380.00	
March 2011	2,277.00	2,375.00	
April 2011	2,297.00	2,378.00	
May 2011	2,143.23	2,375.00	
June 2011	1,973.19	2,378.00	
July 2011	2,393.00	2,380.00	
August 2011	2,390.00	2,386.00	
September 2011	2,040.00	2,386.00	
October 2011	2,126.00	2,190.00	

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

Water System Cost--Potable

MONTHLY STATUS REPORT

Metric Owner: Denise To-Nguyen

Accountant

Definition of Measure:

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

Method:

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

Data Collection

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

Current Issues

1. None

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> November 2010
November 2010	1,109.19	862.36	<i>Thru:</i> October 2011
December 2010	1,172.08	878.12	<i>Goal:</i> 768.00
January 2011	957.53	902.95	
February 2011	937.62	903.89	
March 2011	1,031.46	897.43	
April 2011	951.24	873.74	
May 2011	728.69	920.18	
June 2011	1,005.05	943.89	
July 2011	798.49	854.55	
August 2011	773.00	789.00	
September 2011	731.00	768.00	
October 2011	699.00	866.00	

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

Water System Cost--Nonpotable

MONTHLY STATUS REPORT

Metric Owner: Denise To-Nguyen

Accountant

Definition of Measure:

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

Method:

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

Data Collection

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

Current Issues

1. None

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> November 2010
November 2010	840.22	547.10	<i>Thru:</i> October 2011
December 2010	854.69	597.27	<i>Goal:</i> 422.00
January 2011	1,186.35	722.95	
February 2011	905.02	607.02	
March 2011	1,000.90	707.32	
April 2011	777.61	563.92	
May 2011	424.12	452.90	
June 2011	471.96	413.85	
July 2011	394.00	432.00	
August 2011	338.00	408.00	
September 2011	413.08	422.00	
October 2011	490.00	451.00	

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

Enterprise Return

MONTHLY STATUS REPORT

Metric Owner: Jayne George

Debt and Investment Analyst

Definition of Measure:

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

Method:

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

Data Collection

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

Current Issues

1. The October measure is above budget due to better lease ups and wireless revenue from last month appearing this month.

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	From: November 2010
November 2010	.94		Thru: October 2011
December 2010	.76		Goal: 1.00
January 2011	1.17		
February 2011	1.04		
March 2011	1.02		
April 2011	1.06		
May 2011	1.02		
June 2011	1.05		
July 2011	1.04		
August 2011	.98		
September 2011	1.00		
October 2011	1.12		

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

Overhead Ratio

MONTHLY STATUS REPORT

Metric Owner: Jessica Craig

Accountant

Definition of Measure:

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

Method:

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

Data Collection

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

Current Issues

1. Information not available at time of reporting.

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> November 2010
November 2010	1.54		<i>Thru:</i> October 2011
December 2010	1.87		<i>Goal:</i> 1.80
January 2011	2.13		
February 2011	1.72		
March 2011	1.92		
April 2011	1.72		
May 2011	1.06		
June 2011	1.36		
July 2011	1.65		
August 2011	1.80		
September 2011	1.80		
October 2011	Not available		

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

Customer Satisfaction

MONTHLY STATUS REPORT

Metric Owner: Gina Jackson

Customer Service Manager

Definition of Measure:

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

Method:

Data Collection

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

Current Issues

1. Total Overall Satisfaction: 95%
Satisfaction: 90%
Timely: 98%
Phone: 96%
Field Contact: 95%

MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> November 2010
November 2010	98.00		<i>Thru:</i> October 2011
December 2010	99.00		<i>Goal:</i> 90.00
January 2011	98.00		
February 2011	100.00		
March 2011	97.00		
April 2011	98.00		
May 2011	98.00		
June 2011	98.00		
July 2011	95.00		
August 2011	96.00		
September 2011	99.00		
October 2011	95.00		

IRVINE RANCH WATER DISTRICT
STRATEGIC MEASURES

Employee Satisfaction

MONTHLY STATUS REPORT

Metric Owner: Gretchen Maswadeh

Human Resources Manager

Definition of Measure:

Level of employee satisfaction with employment at IRWD.

Method:

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

Data Collection

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

Current Issues

1. 11 surveys were returned of 31 surveys sent (35%). 9 of 11 respondents (82%) rated satisfaction as 5 or 6 on a scale of 1 to 6. In the 12 month period ending October 2011, 102 surveys have been returned of 286 surveys sent (36%). 88 of 102 respondents (86%) rated satisfaction as 5 or 6 on a scale of 1 to 6. 12 month average rating is 5.29%.

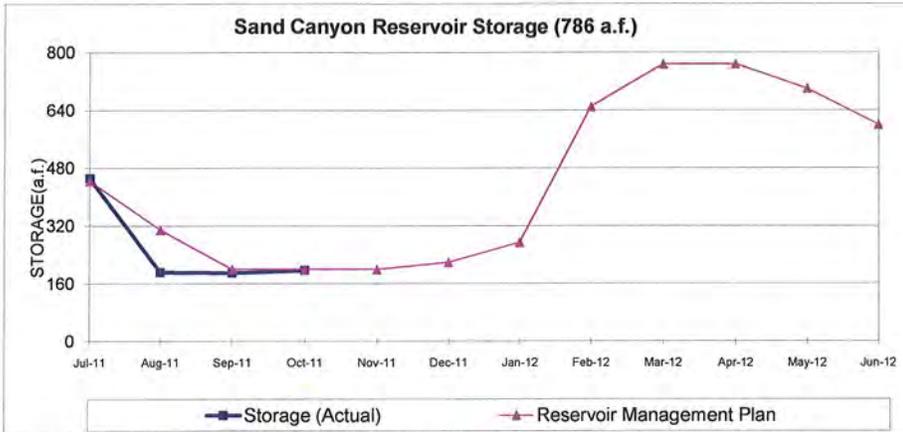
MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> November 2010
November 2010	5.13		<i>Thru:</i> October 2011
December 2010	5.56		<i>Goal:</i> 5.00
January 2011	5.00		
February 2011	5.20		
March 2011	5.50		
April 2011	5.46		
May 2011	5.33		
June 2011	5.50		
July 2011	5.63		
August 2011	5.38		
September 2011	4.38		
October 2011	5.36		

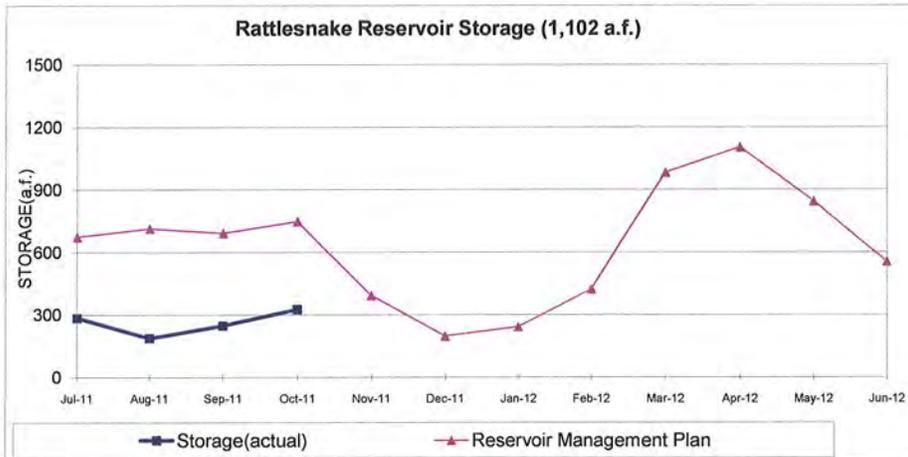
EXHIBIT "B"

DYER ROAD WELL FIELD STATUS							Oct-2011
Well Number	Production Mo./YTD	Ref. Point Elevation	Depth to Water 10/31/2011	Water Level-MSL	Depth of Bows	Bowl Setting-MSL	Feet of Water Above Intake
1	126.0 AF 126.0 AF	34	N/A	N/A	270	-236	N/A
2	144.3 AF 147.0 AF	37	157	-121	270	-234	113
			Pumping				
3	0.0 AF 0.0 AF	55	85	-30	215	-160	130
			Static				
4	88.2 AF 88.4 AF	38	86	-48	216	-178	130
			Static				
5	105.4 AF 125.4 AF	48	269	-221	290	-242	21
			Pumping				
6	111.1 AF 118.6 AF	43	76	-33	250	-207	174
			Static				
7	93.5 AF 94.4 AF	40	209	-169	290	-250	81
			Pumping				
C-8 DATS	380.4 AF 1,668.2 AF	37	117	-80	305	-268	188
			Pumping				
C-9 DATS	317.1 AF 1,285.4 AF	23	118	-95	305	-282	187
			Pumping				
10	333.5 AF 342.3 AF	47	95	-48	250	-203	155
			Static				
11	85.2 AF 85.2 AF	40	97	-57	300	-260	203
			Static				
12	91.5 AF 91.5 AF	51	105	-54	300	-249	195
			Static				
13	7.8 AF 8.0 AF	40	96	-56	300	-260	204
			Static				
14	71.8 AF 72.3 AF	47	101	-54	311	-264	210
			Static				
15	369.2 AF 369.2 AF	44	155	-111	300	-256	145
			Pumping				
16	69.4 AF 69.6 AF	47	100	-53	280	-233	180
			Static				
17	268.2 AF 269.8 AF	52	169	-118	250	-199	81
			Pumping				
18	0.1 AF 0.1 AF	45	95	-50	300	-255	205
			Static				
Clear production: 1,964.9 AF for the month							
FYTD: 2,007.4 AF							
DATS production: 697.5 AF for the month							
FYTD: 2,953.6 AF							

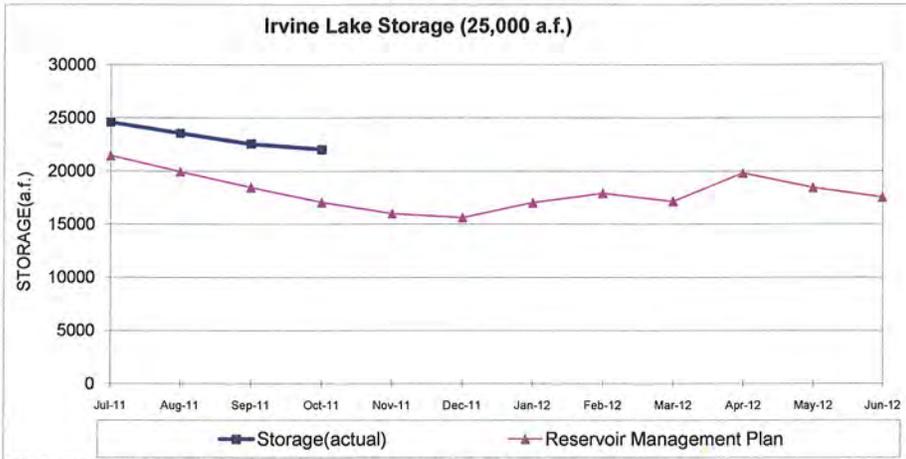
EXHIBIT "C"



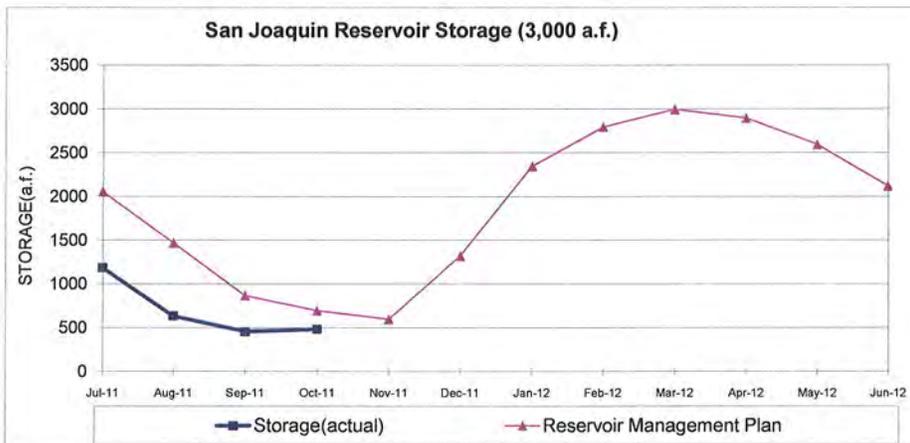
Storage was under 200 AF by October 1 as required by Regional Board permit. Sand Canyon will draft down over the next few months.



Rattlesnake storage is on track after responding to storms in December and January.



Irvine Lake is not spilling due to the installation of the flash boards April 1st.



All Lake Forest reclaimed demand is being supplied from the East Irvine Zone B system.

November 28, 2011

Prepared by: Tanja Fournier/Rob Jacobson

Submitted by: Debby Cherney

Approved by: Paul Cook

CONSENT CALENDAR

OCTOBER 2011 FINANCIAL REPORTS

SUMMARY:

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

- A. The Investment Summary Report for October 2011. This Investment Summary Report is in conformity with the 2011 Investment Policy and provides sufficient liquidity to meet estimated expenditures during the next six months, as outlined in Exhibit "A".
- B. The Monthly Interest Rate Swap Summary as of October 31, 2011, as outlined in Exhibit "B".
- C. The October 31, 2011 Disbursement Summary of the tabulation of Warrant Nos. 323976 through 324665, Workers' Compensation distributions, payroll withholding distributions, payroll direct deposit ACH payments and voided checks in the total amount of \$29,379,035.74.

FISCAL IMPACTS:

As of October 31, 2011, the book value of the investment portfolio was \$376,071,870 with a 0.42% rate of return and a market value of \$376,517,405. Based on the District's September 30, 2011 quarterly real estate investment rate of return of 11.37%, the District's weighted average return for the fixed income and real estate investments was 1.98%.

As of October 31, 2011, the total notional amount of the interest rate swap portfolio was \$130 million of fixed payer swaps. Cash accrual in October from all swaps was negative \$639,502 and negative \$2,506,163 fiscal year to date.

Wire transfers, ACH payments, and checks issued for debt service, accounts payable, payroll and water purchases for October totaled \$29,379,035.74.

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:

RECEIVE AND FILE THE TREASURER'S INVESTMENT SUMMARY REPORT AND THE MONTHLY INTEREST RATE SWAP SUMMARY FOR OCTOBER 2011; APPROVE THE OCTOBER 2011 DISBURSEMENT SUMMARY OF WARRANTS NOS. 323976 THROUGH 324665, WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL DIRECT DEPOSIT ACH PAYMENTS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$29,379,035.74.

LIST OF EXHIBITS:

Exhibit "A" - Investment Summary Report

Exhibit "B" - Monthly Interest Rate Swap Summary

Exhibit "C" - Monthly Summary of District Disbursements

10/31/11

SETTLEMENT	INTEREST PERIOD			Call Date	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON	YIELD	YTC	ORIGINAL COST	CARRY VALUE	MARKET VALUE 10/31/2011	(1)	UNREALIZED GAIN/(LOSS)(2)
	FROM	THROUGH	NEXT RESET														
10/26/11	10/01/11	10/31/11			11/29/11		LAIF	State of California Tsy.	\$17,700,000		0.370%		\$17,700,000.00	\$17,700,000.00	17,732,702.38		32,702.38
10/31/11	10/01/11	10/31/11			11/29/11		LAIF-JPA	State of California Tsy.	47,000,000		0.370%		\$47,000,000.00	\$47,000,000.00	47,086,836.82		86,836.82
10/14/11	10/01/11	10/31/11			11/13/11		LAIF-2009A	State of California Tsy.	683,934		0.370%		\$683,933.60	\$683,933.60	685,197.23		1,263.63
10/14/11	10/01/11	10/31/11			11/13/11		LAIF-2009B	State of California Tsy.	683,934		0.370%		\$683,933.60	\$683,933.60	685,197.23		1,263.63
10/19/11	10/01/11	10/31/11			11/19/11		LAIF BABS	State of California Tsy.	121,811,427		0.370%		\$121,811,426.65	\$121,811,426.65	122,036,484.47		225,057.82
10/31/11	10/01/11	10/31/11			11/01/11		B of A Tsy. Reserves	Bank of America	1,355,897.38		0.009%		1,355,897.38	1,355,897.38	1,355,897.38		
04/21/10					11/23/11	Aaa/AAA/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.000%	0.841%		5,012,550.00	5,000,475.22	5,002,800.00		2,324.78
01/11/11					01/11/13	Aaa/AAA/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.750%	0.826%	0.901%	4,992,500.00	4,995,516.42	5,004,050.00		8,533.58
02/10/11				02/08/12	02/08/13	Aaa/AAAe/NR	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	0.850%	0.997%	1.144%	4,985,500.00	4,990,751.03	5,006,400.00		15,648.97
04/04/11				03/14/12	03/14/13	Aaa/AAA/NR	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	0.500%	1.013%	0.500%	5,000,000.00	5,000,000.00	5,002,700.00		2,700.00
05/23/11					04/11/13	Aaa/AAA/AAA	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	1.720%	0.517%		5,112,550.00	5,086,086.87	5,099,900.00		13,813.13
04/25/11				04/25/12	04/25/13	NA/AAAe/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.750%	0.750%	0.750%	5,000,000.00	5,000,000.00	5,010,400.00		10,400.00
03/29/11				11/23/11	05/23/13	Aaa/AAA/AAA	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	0.625%	1.040%	0.654%	4,955,985.00	4,968,136.72	5,000,850.00		32,713.28
06/27/11				06/27/12	09/27/13	Aaa/AAA/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.700%	0.700%	0.700%	5,000,000.00	5,000,000.00	5,006,950.00		6,950.00
10/25/11				04/25/12	10/25/13	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.625%	0.625%	0.625%	5,000,000.00	5,000,000.00	5,000,900.00		900.00
05/23/11				11/23/11	05/23/14	Aaa/AAA/AAAe	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	1.250%	1.253%	1.270%	4,999,500.00	4,999,573.91	5,002,600.00		3,026.09
05/27/11				11/28/11	05/28/14	NA/AAA/NR	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	1.250%	1.250%	1.250%	5,000,000.00	5,000,000.00	5,002,800.00		2,800.00
06/27/11				06/27/12	06/27/14	Aaa/AAAe/NR	FFCB - Note	Fed Farm Credit Bank	10,000,000	1.050%	1.050%	1.050%	10,000,000.00	10,000,000.00	10,023,900.00		23,900.00
07/14/11				07/11/12	07/11/14	Aaa/AAA/NR	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.125%	0.962%	0.962%	5,008,000.00	5,007,194.86	5,018,150.00		10,955.14
08/22/11				08/22/12	08/22/14	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.650%	0.660%	0.680%	4,998,500.00	4,998,597.18	4,974,400.00		(24,197.18)
08/29/11				08/28/12	08/28/14	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.650%	0.650%	0.650%	5,000,000.00	5,000,000.00	4,987,350.00		(12,650.00)
10/13/11				08/28/12	08/28/14	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.650%	0.791%	1.110%	4,980,000.00	4,987,350.00	4,987,350.00		6,988.10
10/19/11				10/17/12	10/17/14	Aaa/AA+/NR	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	0.750%	0.801%	0.902%	4,992,500.00	4,992,589.12	4,985,100.00		(7,489.12)
09/22/11				N/A	06/26/12	MIG1e/SP-1+/F1	CA ST-RANS-A2	State of California	2,000,000	2.000%	0.400%		2,024,280.00	2,020,786.48	2,021,880.00		1,093.52
09/26/08	10/26/11	11/01/11	11/02/11	(4)	Aaa/AAA/NR	VRDO	Chino Basin Fin		11,280,000		0.100%		11,280,000.00	11,280,000.00	11,280,000.00		
08/01/09	10/26/11	11/01/11	11/02/11	(5)	Aa3/ANR	VRDO	Rancho California WtrD		6,500,000		0.090%		6,500,000.00	6,500,000.00	6,500,000.00		
07/20/10	10/27/11	11/02/11	11/03/11	(4)	Aa1/AAA/AAA	VRDO	Metropolitan Water		7,500,000		0.100%		7,500,000.00	7,500,000.00	7,500,000.00		
08/16/10	10/26/11	11/01/11	11/02/11	(4)	Aaa/AAA/NR	VRDO	Sacramento WTR		10,000,000		0.110%		10,000,000.00	10,000,000.00	10,000,000.00		
11/18/10	10/27/11	11/02/11	11/03/11	(4)	Aa1/AAA/AA-	VRDO	LA Waste Wtr		4,900,000		0.080%		4,900,000.00	4,900,000.00	4,900,000.00		
12/22/10	10/26/11	11/01/11	11/02/11	(4)	Aa2/AAA/AA+	VRDO	Eastern Mun Wtr Dist CA		7,900,000		0.110%		7,900,000.00	7,900,000.00	7,900,000.00		
04/27/11	10/26/11	11/01/11	11/02/11	(4)	Aa2/AAAe/NR	VRDO	East Bay MUD		9,600,000		0.090%		9,600,000.00	9,600,000.00	9,600,000.00		
05/06/11	10/26/11	11/01/11	11/02/11	(4)	Aa2/AA-/NR	VRDO	West Basin Wtr		9,200,000		0.120%		9,200,000.00	9,200,000.00	9,200,000.00		
06/01/11	10/26/11	11/01/11	11/02/11	(4)	Aa1/AAA/AAA	VRDO	Orange Cnty Wtr		5,000,000		0.110%		5,000,000.00	5,000,000.00	5,000,000.00		
SUB-TOTAL									\$353,115,191				\$353,177,056.23	\$353,155,260.93	\$353,600,795.51		\$445,534.58
RESTRICTED CASH (Swap Collateral Deposits)																	
10/03/11	10/01/11	10/31/11					Collateral Deposit	Citi-Group	\$15,856,609		0.071%		\$15,856,609.31	\$15,856,609.31	15,856,609.31		
09/23/11	10/01/11	10/31/11					Collateral Deposit	Merrill Lynch	\$7,060,000		0.071%		\$7,060,000.00	\$7,060,000.00	7,060,000.00		
SUB-TOTAL									\$22,916,609				\$22,916,609.31	\$22,916,609.31	\$22,916,609.31		
TOTAL INVESTMENTS									\$376,031,801				\$376,093,665.54	\$376,071,870.24	\$376,517,404.82		
Petty Cash													3,300.00				
Bank Bal. (unrec.)										Bank of America			(4,489,502.09)				
													\$371,607,063.45				

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

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

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

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

(4) No call Notice

(5) Partial Call

This Investment Summary Report is in conformity with the 2011 Investment Policy and provides sufficient liquidity to meet the next six months estimated expenditures.

Outstanding Variable Rate Debt

Net Outstanding Variable Rate Debt (Less \$130 million fixed-payer swaps)

Investment Balance:

Investment to Variable Rate Debt Ratio:

Portfolio - Average Number of Days To Maturity

\$383,660,000

\$253,660,000

\$371,607,063

146%

206

	Investment Portfolio	Real Estate Portfolio (3)	Weighted Avg. Return
October	0.42%	11.37%	1.98%
September	0.42%	11.37%	1.96%
Change	0.00%		

IRVINE RANCH WATER DISTRICT
SUMMARY OF MATURITIES

10/31/11

PORTFOLIO \$376,031,801

DATE	TOTAL	%	LAIF	AGENCIES	MUNI	CAL REV NOTES	MONEY MARKET SAVINGS & SWIFT	Collateral * Deposit
11/11	\$291,031,801	77.40%	\$187,879,294	5,000,000	71,880,000	2,000,000	1,355,897	\$22,916,609
12/11								
1/12								
2/12								
3/12								
4/12								
5/12								
6/12								
7/12								
8/12								
9/12								
10/12								
SUB-TOTAL	\$291,031,801	77.40%	\$187,879,294	5,000,000	71,880,000	2,000,000	1,355,897	\$22,916,609
13 Months - 3 YEARS								
10/1/2012 - 12/31/2012								
1/1/2013 - 3/31/2013	\$15,000,000	3.99%		15,000,000				
4/1/2013 - 6/30/2013	\$15,000,000	3.99%		15,000,000				
7/1/2013 - 9/30/2013	\$5,000,000	1.33%		5,000,000				
10/1/2013 - 12/31/2013	\$5,000,000	1.33%		5,000,000				
4/1/2014 - 6/30/2014	\$20,000,000	5.32%		20,000,000				
7/1/2014 - 9/30/2014	\$20,000,000	5.32%		20,000,000				
10/1/2014 - 12/31/2014	\$5,000,000	1.33%		5,000,000				
TOTALS	\$376,031,801	100.00%	\$187,879,294	90,000,000	71,880,000	2,000,000	1,355,897	\$22,916,609
% OF PORTFOLIO			49.96%	23.93%	19.12%	0.53%	0.36%	6.09%

* Return of posted collateral is dependant on interest rates.

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT
INVESTMENT ACTIVITY
Oct-11

MATURITIES/SALES

PURCHASES

DATE	SECURITY TYPE	PAR	YIELD	DATE	SECURITY TYPE	PAR	YIELD
10/31/2011	FNMA Note Due 10/29/2011	\$5,000,000	1.12%	10/13/2011	FNMA Note Due 8/28/2014	\$5,000,000	0.79%
				10/19/2011	FHLMC Note Due 10/17/2014	\$5,000,000	0.80%
				10/25/2011	FNMA Note Due 8/25/2013	\$5,000,000	0.63%

LAIF ACTIVITY

10/03/11	LAIF	(\$3,800,000)
10/06/11	LAIF	(\$800,000)
10/07/11	LAIF	(\$2,000,000)
10/11/11	LAIF	(\$2,000,000)
10/12/11	LAIF	\$3,500,000
10/13/11	LAIF	(\$4,500,000)
10/14/11	LAIF - BABS	\$126,639
10/14/11	LAIF - 2009A	\$655
10/14/11	LAIF - 2009B	\$655
10/14/11	LAIF	\$38,914
10/14/11	LAIF - JPA	\$47,951
10/19/11	LAIF - BABS	(\$10,400,000)
10/19/11	LAIF	\$5,000,000
10/25/11	LAIF	(\$4,500,000)
10/26/11	LAIF	(\$2,000,000)
10/27/11	LAIF - JPA	(\$2,000,000)
10/28/11	LAIF - JPA	(\$1,000,000)
	Increase/(Decrease)	<u>(\$23,285,185)</u>

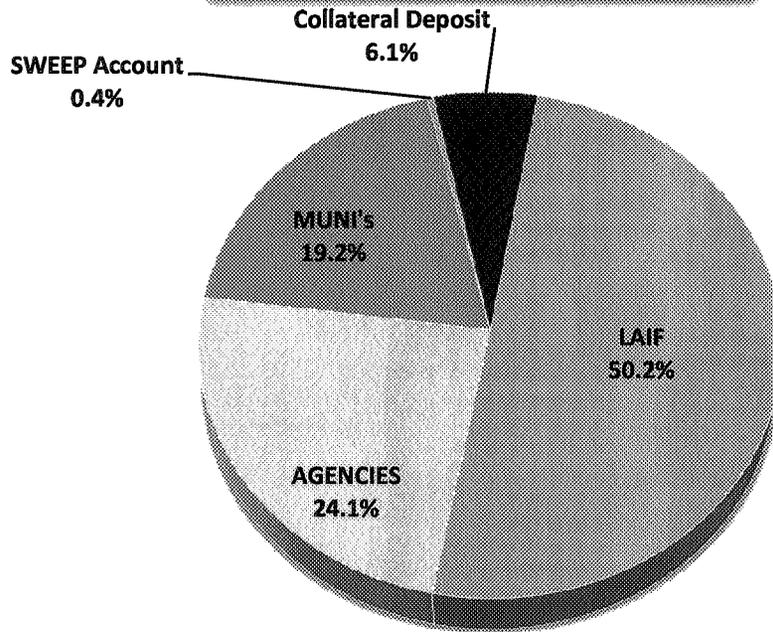
COLLATERALIZED DEPOSIT ACTIVITY

Balance Forward	\$20,457,043
CITIGROUP	\$15,856,610
MERRILL LYNCH	\$7,060,000
	<hr/>
Balance at 10/31	<u>\$22,916,610</u>

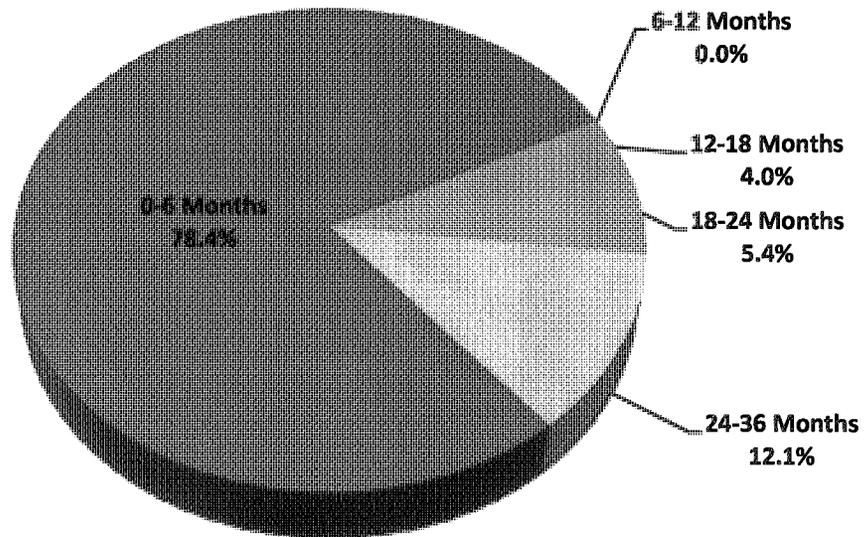
OCTOBER 2011 INVESTMENT PORTFOLIO

As of October 31, 2011

Portfolio by Investment Type



Portfolio by Maturities



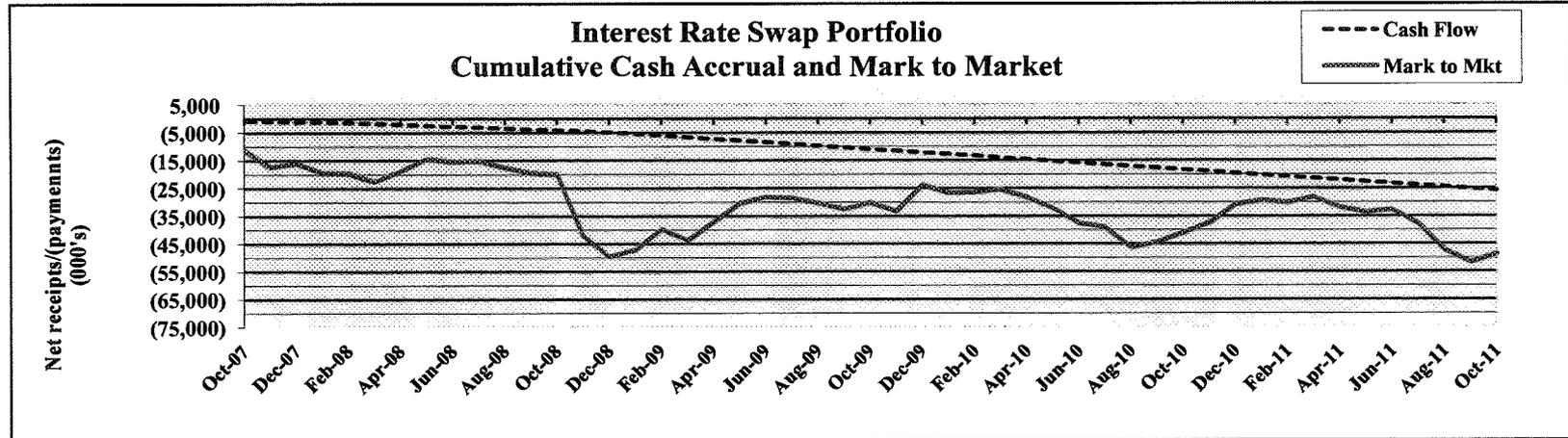
**IRVINE RANCH WATER DISTRICT
INTEREST RATE SWAP MONTHLY SUMMARY REPORT - DETAIL
October 31, 2011**

LIBOR Avg %	Prior Mo.	Current Mo.	12-Mo Avg
	0.23%	0.24%	0.23%

Current Fiscal Year Active Swaps								Cash Flow				Mark to Market	
Effective Date	Maturity Date	Years to Maturity	Counter Party	Notional Amt	Type	Base Index	Fixed Rate	Prior Month	Current Month	Fiscal YTD	Cumulative Cash Flow	Current Mark to Market	Notional Difference
Fixed Payer Swaps - By Effective Date													
6/4/2006	6/4/2019	7.6	ML	\$ 20,000,000	FXP	LIBOR	6.200%	\$ (96,239)	\$ (102,693)	\$ (402,412)	\$ (4,254,002)	\$ 13,317,146	\$ (6,682,854)
6/4/2006	6/4/2019	7.6	CG	\$ 20,000,000	FXP	LIBOR	6.200%	\$ (96,239)	\$ (102,693)	(402,412)	(4,254,002)	13,308,751	(6,691,249)
6/17/2006	6/17/2019	7.6	CG	\$ 30,000,000	FXP	LIBOR	6.140%	\$ (142,914)	\$ (152,520)	(597,655)	(6,295,841)	20,139,322	(9,860,678)
3/10/2007	3/10/2029	17.4	ML	\$ 30,000,000	FXP	LIBOR	5.687%	\$ (131,934)	\$ (140,798)	(551,842)	(5,472,376)	17,281,172	(12,718,828)
3/10/2007	3/10/2029	17.4	CG	\$ 30,000,000	FXP	LIBOR	5.687%	(131,934)	(140,798)	(551,842)	(5,472,376)	17,284,786	(12,715,214)
Totals/Weighted Avgs		12.1		\$ 130,000,000			5.949%	\$ (599,260)	\$ (639,502)	\$ (2,506,163)	\$ (25,748,598)	\$ 81,331,177	\$ (48,668,823)
Total Current Year Active Swaps				\$ 130,000,000				\$ (599,260)	\$ (639,502)	\$ (2,506,163)	\$ (25,748,598)	\$ 81,331,177	\$ (48,668,823)

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

Current Fiscal Year - Total Swaps								Cash Flow				Mark to Market	
Prior Month	Current Month	Fiscal YTD	Cumulative Cash Flow	Current Mark to Market	Notional Difference								
\$ (599,260)	\$ (639,502)	\$ (2,506,163)	\$ (25,748,598)	\$ 81,331,177	\$ (48,668,823)								



Cash Flow Comparison Synthetic Fixed vs. Fixed Rate Debt	
	<u>Cash Flow to Date</u>
Synthetic Fixed =	\$45,215,864
Fixed Rate =	\$49,278,947
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 + all-in cost of to date	

Exhibit "C"

IRWD Ledger Payment Register For 01-OCT-11 To 31-OCT-11 Report Date: 02-NOV-2011 09:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 1
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
323976		03-OCT-11	SUE TAYLOR	IRVINE	150.50			Negotiable
323977		03-OCT-11	ARIAZAND, LILY	SANTA ANA	1,196.90			Negotiable
323978		06-OCT-11	ACCURATE AIR ENGINEERING INC		2,814.88			Negotiable
323979		06-OCT-11	ACTION ELECTRIC CORP		374.39			Negotiable
323980		06-OCT-11	ACWA HEALTH BENEFITS AUTHORITY		30,685.73			Negotiable
323981		06-OCT-11	ADS LLC		1,936.50			Negotiable
323982		06-OCT-11	ADVANCED INDUSTRIAL SERVICES INC		4,926.00			Negotiable
323983		06-OCT-11	AIRGAS-WEST, INC.		1,496.00			Negotiable
323984		06-OCT-11	ALSTON & BIRD LLP		4,050.00			Negotiable
323985		06-OCT-11	AMERICAN MESSAGING SERVICES LLC		286.97			Negotiable
323986		06-OCT-11	APPLIED SPECIATION AND CONSULTING, LLC		750.00			Negotiable
323987		06-OCT-11	AQUA BEN CORPORATION		29,843.09			Negotiable
323988		06-OCT-11	AQUA-METRIC SALES COMPANY		18,926.97			Negotiable
323989		06-OCT-11	ARC		3,514.10			Negotiable
323990		06-OCT-11	ARCADIS U.S., INC.		9,067.22			Negotiable
323991		06-OCT-11	ASSIFI, TAWAB		1,560.00			Negotiable
323992		06-OCT-11	ASSOCIATED POWER INC		3,634.14			Negotiable
323993		06-OCT-11	AT&T		91.25			Negotiable
323994		06-OCT-11	AT&T		4,176.56			Negotiable
323995		06-OCT-11	ATECH ENGINEERING & MFG INC		180.00			Negotiable
323996		06-OCT-11	ATHENS SERVICES		896.56			Negotiable
323997		06-OCT-11	AYRES HOTEL AND SUITES (DBA)		7,867.07			Negotiable
323998		06-OCT-11	BAILEY, OFELIA		1,200.00			Negotiable
323999		06-OCT-11	BALLARD, CARL		1,800.00			Negotiable
324000		06-OCT-11	BIOMAGIC INC		3,939.61			Negotiable
324001		06-OCT-11	BLASICK, DIANE		1,080.00			Negotiable
324002		06-OCT-11	BORKMAN, CHARLES E		1,500.00			Negotiable
324003		06-OCT-11	BRADLEY, CARRIE		1,800.00			Negotiable
324004		06-OCT-11	BREITER, JOE		1,800.00			Negotiable
324005		06-OCT-11	BRENNTAG PACIFIC INC		3,218.00			Negotiable
324006		06-OCT-11	BRUCE NEWELL		1,316.00			Negotiable

IRWD Ledger Payment Register For 01-OCT-11 To 31-OCT-11 Report Date: 02-NOV-2011 09:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 2
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324007		06-OCT-11	CALIFORNIA BARRICADE INC		875.00			Negotiable
324008		06-OCT-11	CALIFORNIA MUNICIPAL STATISTICS INC		500.00			Negotiable
324009		06-OCT-11	CAPTIVE AUDIENCE MARKETING INC.		85.12			Negotiable
324010		06-OCT-11	CDW GOVERNMENT LLC		154.27			Negotiable
324011		06-OCT-11	CELAYA, MARY		1,800.00			Negotiable
324012		06-OCT-11	CHEESMAN, ENRIQUE		1,680.00			Negotiable
324013		06-OCT-11	CHEM TECH INTERNATIONAL INC		12,522.40			Negotiable
324014		06-OCT-11	CITY OF TUSTIN		115.74			Negotiable
324015		06-OCT-11	CLEARINGHOUSE		528.45			Negotiable
324016		06-OCT-11	COASTAL TRAFFIC SYSTEMS, INC		510.00			Negotiable
324017		06-OCT-11	COMILLAS, TEOFY E		1,800.00			Negotiable
324018		06-OCT-11	COMMERCE ENERGY INC		491.27			Negotiable
324019		06-OCT-11	CONEYBEARE INC		8,575.76			Negotiable
324020		06-OCT-11	CRAWFORD, JOHN P		1,320.00			Negotiable
324021		06-OCT-11	CRIM, RON		1,800.00			Negotiable
324022		06-OCT-11	CUMMINS CAL PACIFIC LLC		2,221.50			Negotiable
324023		06-OCT-11	DE VAUL PAINT COMPANY		624.91			Negotiable
324024		06-OCT-11	DEAKYNE, SCOTT		750.00			Negotiable
324025		06-OCT-11	DENGER, LOU		1,800.00			Negotiable

324026	06-OCT-11	DIRECTV INC	88.49	Negotiable
324027	06-OCT-11	DUDEK	12,241.96	Negotiable
324028	06-OCT-11	DUDLEY RIDGE WATER DISTRICT	2,000.10	Negotiable
324029	06-OCT-11	ELECTRABOND	280.00	Negotiable
324030	06-OCT-11	ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.	35,666.76	Negotiable
324031	06-OCT-11	ENVIRONMENTAL EXPRESS INC	3,056.16	Negotiable
324032	06-OCT-11	ENVIRONMENTAL WATER MGT	4,000.00	Negotiable
324033	06-OCT-11	ERVIN, CRAIG J	1,800.00	Negotiable
324034	06-OCT-11	ESA PWA	1,788.52	Negotiable
324035	06-OCT-11	ESS	62.18	Negotiable
324036	06-OCT-11	EXPRESSAIR	509.50	Negotiable
324037	06-OCT-11	FEDEX	913.37	Negotiable

IRWD Ledger Payment Register For 01-OCT-11 To 31-OCT-11 Report Date: 02-NOV-2011 09:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 3
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324038		06-OCT-11	FIDELITY SECURITY LIFE INSURANCE COMPANY		18.44			Negotiable
324039		06-OCT-11	FISHER SCIENTIFIC COMPANY LLC		742.91			Negotiable
324040		06-OCT-11	FRONTLINE MANAGEMENT INC		4,957.64			Negotiable
324041		06-OCT-11	GEISER, DON		1,800.00			Negotiable
324042		06-OCT-11	GENTERRA CONSULTANTS INC		12,680.00			Negotiable
324043		06-OCT-11	GRAINGER		288.34			Negotiable
324044		06-OCT-11	GREEN BUILDING CERTIFICATION INSTITUTE		1,250.00			Voided
324045		06-OCT-11	H2O RESOURCES ENGINEERING INC		4,335.00			Negotiable
324046		06-OCT-11	HABIGER, STEVE		1,800.00			Negotiable
324047		06-OCT-11	HACH COMPANY		6,144.73			Negotiable
324048		06-OCT-11	HARDY & HARPER INC		45,360.00			Negotiable
324049		06-OCT-11	HARMSWORTH ASSOCIATES		4,272.50			Negotiable
324050		06-OCT-11	HARPER & ASSOCIATES ENGINEERING INC		3,783.00			Negotiable
324051		06-OCT-11	HDR ENGINEERING INC		69,685.69			Negotiable
324052		06-OCT-11	HEANEY, DAVID		1,800.00			Negotiable
324053		06-OCT-11	HILL BROTHERS CHEMICAL COMPANY		13,075.40			Negotiable
324054		06-OCT-11	HOLLIDAY, MARY E		1,200.00			Negotiable
324055		06-OCT-11	HOME DEPOT USA INC		519.20			Negotiable
324056		06-OCT-11	HYDE, JIM		1,800.00			Negotiable
324057		06-OCT-11	II FUELS INC		13,940.29			Negotiable
324058		06-OCT-11	INDUSTRIAL ELECTRIC MACHINERY LLC		5,109.57			Negotiable
324059		06-OCT-11	INDUSTRIAL METAL SUPPLY CO		46.27			Negotiable
324060		06-OCT-11	INNOVYZE		8,000.00			Negotiable
324061		06-OCT-11	INTEGRITY MUNICIPAL SERVICES		519.27			Negotiable
324062		06-OCT-11	IRVINE PIPE & SUPPLY INC		521.63			Negotiable
324063		06-OCT-11	IRWD-PETTY CASH CUSTODIAN		953.18			Negotiable

IRWD Ledger Payment Register For 01-OCT-11 To 31-OCT-11 Report Date: 02-NOV-2011 09:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 4
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324064		06-OCT-11	JCI JONES CHEMICALS INC		10,725.50			Voided
324065		06-OCT-11	JOHN G. ALEVIKOS D.O. INC.		90.00			Negotiable
324066		06-OCT-11	JOHNSTONE SUPPLY		643.77			Negotiable
324067		06-OCT-11	JONES & STOKES ASSOCIATES, INC		2,122.50			Negotiable
324068		06-OCT-11	JWC ENVIRONMENTAL		22,315.03			Negotiable
324069		06-OCT-11	KAMINSKE, ED		400.00			Negotiable
324070		06-OCT-11	KARCHER DIGITAL & PRINTING		270.99			Negotiable

324071	06-OCT-11	KELLEY BLUE BOOK, INC.	75.43	Negotiable
324072	06-OCT-11	KELLY SERVICES INC	4,648.00	Negotiable
324073	06-OCT-11	KNUTH, MICHAEL C	900.00	Negotiable
324074	06-OCT-11	KONVES, JIM	1,560.00	Negotiable
324075	06-OCT-11	LAB SAFETY SUPPLY INC	85.34	Negotiable
324076	06-OCT-11	LAYNE CHRISTENSEN COMPANY	3,343.90	Negotiable
324077	06-OCT-11	LEWIS OPERATING CORP	2,250.00	Negotiable
324078	06-OCT-11	LOOMIS, TERRELL	1,560.00	Negotiable
324079	06-OCT-11	LSA ASSOCIATES INC	3,838.30	Negotiable
324080	06-OCT-11	LYNCH, JAN	1,400.00	Negotiable
324081	06-OCT-11	Mary Hassett	1,800.00	Negotiable
324082	06-OCT-11	MBC APPLIED ENVIRONMENTAL SCIENCES	3,000.00	Negotiable
324083	06-OCT-11	MC MASTER CARR SUPPLY CO	297.43	Negotiable
324084	06-OCT-11	MCCORMICK, LESTER	1,800.00	Negotiable
324085	06-OCT-11	MERCHANTS LANDSCAPE SERVICES INC	13,441.28	Negotiable
324086	06-OCT-11	MOBILE MODULAR MANAGEMENT CORPORATION	1,108.75	Negotiable
324087	06-OCT-11	MUMENTHALER SYLVIA	1,680.00	Negotiable
324088	06-OCT-11	MWH LABORATORIES	300.00	Negotiable
324089	06-OCT-11	NATIONAL READY MIXED CONCRETE CO	1,960.37	Negotiable
324090	06-OCT-11	NCL OF WISCONSIN INC	334.63	Negotiable
324091	06-OCT-11	NINYO & MOORE	16,226.25	Negotiable
324092	06-OCT-11	OLIN CORPORATION	18,740.22	Negotiable

IIRWD Ledger Payment Register For 01-OCT-11 To 31-OCT-11 Report Date: 02-NOV-2011 09:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 5
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324093		06-OCT-11	ON ASSIGNMENT LAB SUPPORT		3,804.41			Negotiable
324094		06-OCT-11	ONESOURCE DISTRIBUTORS LLC		2,155.55			Negotiable
324095		06-OCT-11	ORANGE COUNTY AUTO PARTS CO		193.30			Negotiable
324096		06-OCT-11	ORANGE COUNTY SANITATION DISTRICT		4,640.00			Negotiable
324097		06-OCT-11	ORANGE COUNTY TREASURER		211.54			Negotiable
324098		06-OCT-11	ORANGE COUNTY WATER DISTRICT		744,744.00			Negotiable
324099		06-OCT-11	ORRICK, HERRINGTON & SUTCLIFFE LLP		75,514.66			Negotiable
324100		06-OCT-11	PABIS, SHARON		840.00			Negotiable
324101		06-OCT-11	PACIFIC STRATEGIES		2,500.00			Negotiable
324102		06-OCT-11	PACIFIC TECHNOLOGIES INC		4,275.00			Negotiable
324103		06-OCT-11	PALMER PRODUCTS INC		140.00			Negotiable
324104		06-OCT-11	PALOMARES, JOHN		1,800.00			Negotiable
324105		06-OCT-11	PHAM, BINH T		1,740.00			Negotiable
324106		06-OCT-11	PINNACLE LANDSCAPE COMPANY		5,936.76			Negotiable
324107		06-OCT-11	PINNACLE TOWERS LLC		547.44			Negotiable
324108		06-OCT-11	PONTON INDUSTRIES INC		708.38			Negotiable
324109		06-OCT-11	PRAXAIR DISTRIBUTION INC		2,190.42			Negotiable
324110		06-OCT-11	PRINCIPAL LIFE INSURANCE		12,808.14			Negotiable
324111		06-OCT-11	PRIORITY MAILING SYSTEMS LLC		286.26			Negotiable
324112		06-OCT-11	PROFORMA PRINT & MARKETING		738.44			Negotiable
324113		06-OCT-11	PRUDENTIAL OVERALL SUPPLY		1,283.25			Negotiable
324114		06-OCT-11	PSB THE MARKETING SUPERSOURCE		2,521.35			Negotiable
324115		06-OCT-11	PTI SAND & GRAVEL INC		1,350.47			Negotiable
324116		06-OCT-11	PURE EFFECT INC		11,890.00			Negotiable
324117		06-OCT-11	R&B AUTOMATION INC		18,103.05			Negotiable

IIRWD Ledger Payment Register For 01-OCT-11 To 31-OCT-11 Report Date: 02-NOV-2011 09:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 6
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324118		06-OCT-11	RAINBOW DISPOSAL CO INC		918.53			Negotiable
324119		06-OCT-11	RAM AIR ENGINEERING INC		2,266.17			Negotiable
324120		06-OCT-11	RBF CONSULTING		56,029.80			Negotiable
324121		06-OCT-11	REACH EMPLOYEE ASSISTANCE INC		785.20			Negotiable
324122		06-OCT-11	ROSS FIRE EXTINGUISHER COMPANY, INC.		685.68			Negotiable
324123		06-OCT-11	SANCHEZ, AL		1,000.00			Negotiable
324124		06-OCT-11	SANTA ANA BLUE PRINT		8,264.26			Negotiable
324125		06-OCT-11	SANTA ANA CITY OF		18,285.05			Negotiable
324126		06-OCT-11	SANTIAGO AQUEDUCT COMMISSION		27,238.40			Negotiable
324127		06-OCT-11	SCHEAFER, TOM		1,740.00			Negotiable
324128		06-OCT-11	SECURTEC DISTRICT PATROL INC		390.00			Negotiable
324129		06-OCT-11	SIMI VALLEY LANDFILL AND RECYCLING CENTER		441.48			Negotiable
324130		06-OCT-11	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		422.05			Negotiable
324131		06-OCT-11	SOUTHERN CALIFORNIA EDISON COMPANY		88,599.83			Voided
324132		06-OCT-11	SOUTHERN CALIFORNIA SECURITY CENTER, INC.		251.50			Negotiable
324133		06-OCT-11	SOUTHERN COUNTIES LUBRICANTS LLC		1,124.37			Negotiable
324134		06-OCT-11	SPARKLETTES		120.96			Negotiable
324135		06-OCT-11	STANTEC CONSULTING SERVICES INC.		1,476.00			Negotiable
324136		06-OCT-11	STEVEN ENTERPRISES INC		522.14			Negotiable
324137		06-OCT-11	SUPERIOR WATER TECHNOLOGIES		107,445.00			Negotiable
324138		06-OCT-11	SUPERMEDIA LLC		69.75			Negotiable
324139		06-OCT-11	SWAINS ELECTRIC MOTOR SERVICE		5,713.43			Negotiable
324140		06-OCT-11	TESTAMERICA LABORATORIES, INC		1,092.15			Negotiable

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 7
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324141		06-OCT-11	TETRA TECH, INC		45,014.32			Negotiable
324142		06-OCT-11	THE GAS COMPANY		19.37			Negotiable
324143		06-OCT-11	THE PLUMBERS WAREHOUSE		6,545.81			Negotiable
324144		06-OCT-11	THOMPSON INDUSTRIAL SUPPLY		69.22			Negotiable
324145		06-OCT-11	TRUGREEN LANDCARE LLC		41,000.00			Negotiable
324146		06-OCT-11	ULTRA SCIENTIFIC		702.11			Negotiable
324147		06-OCT-11	UNITED SITE SERVICES OF CALIFORNIA INC		344.28			Negotiable
324148		06-OCT-11	UNITED STATES POST OFFICE		29,250.00			Negotiable
324149		06-OCT-11	UNITED STATES POSTAL SERVICE		67.11			Negotiable
324150		06-OCT-11	URS CORPORATION		13,730.00			Negotiable
324151		06-OCT-11	US PEROXIDE LLC		26,571.15			Negotiable
324152		06-OCT-11	UTILITY SYSTEMS SCIENCE & SOFTWARE INC.		4,018.95			Negotiable
324153		06-OCT-11	VELAZQUEZ, LORETTA		1,800.00			Negotiable
324154		06-OCT-11	VERIZON CALIFORNIA INC		209.63			Negotiable
324155		06-OCT-11	VPSI INC		9,215.73			Negotiable
324156		06-OCT-11	VULCAN MATERIALS COMPANY		1,258.52			Negotiable
324157		06-OCT-11	VWR INTERNATIONAL, LLC		695.13			Negotiable
324158		06-OCT-11	WALKER, JOHN		1,800.00			Negotiable
324159		06-OCT-11	WASTE MANAGEMENT		1,109.10			Negotiable

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
324160	06-OCT-11		OF ORANGE COUNTY WATERSTONE ENVIRONMENTAL INC		2,040.00			Negotiable
324161	06-OCT-11		WECK LABORATORIES INC		3,160.00			Negotiable
324162	06-OCT-11		WILHELMI, DOUGLAS GENE		1,800.00			Negotiable
324163	06-OCT-11		WILLIAM M. PERKINS CO. INC.		750.00			Negotiable
324164	06-OCT-11		WILLIAMS, TWYLA		727.85			Negotiable
324165	06-OCT-11		WOLTERS KLUWER LAW & BUSINESS		291.20			Negotiable
324166	06-OCT-11		WORKFLOWONE		2,190.33			Negotiable
324167	06-OCT-11		ZEE MEDICAL SERVICE CO		702.89			Negotiable

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324168	06-OCT-11		MARVIN GARDENS LLCHUNGTINGTO N BEA		1,252.56			Negotiable
324169	06-OCT-11		Dan Legault		750.00			Negotiable
324170	06-OCT-11		Deborah Cherney		160.13			Negotiable
324171	06-OCT-11		Gina Jackson		31.64			Negotiable
324172	06-OCT-11		Jose Silva		150.00			Negotiable
324173	06-OCT-11		Kenneth Drake		86.00			Negotiable
324174	06-OCT-11		Lars Oldewage		13.20			Negotiable
324175	06-OCT-11		Richard Mori		259.86			Negotiable
324176	06-OCT-11		Roberta Sitzler		337.21			Negotiable
324177	06-OCT-11		Sandra Garcia		108.60			Negotiable
324178	06-OCT-11		CITY OF IRVINE	PAY	3,510.00			Negotiable
324179	06-OCT-11		SOUTHERN CALIFORNIA EDISON COMPANY	ROSEMEAD	1,889.84			Negotiable
324180	06-OCT-11		JCI JONES CHEMICALS INC	CINCINNATI	5,725.50			Negotiable
324181	07-OCT-11		KIM, SOON TAE	ORANGE	1,800.00			Negotiable
324182	07-OCT-11		PHILCO CONSTRUCTION INC	ORANGE	125,148.69			Negotiable
324183	07-OCT-11		REED, JAMES D	PURCHASE_P AY	1,978.09			Negotiable
324184	07-OCT-11		INTERNAL REVENUE SERVICE	FRESNO	1,465.94			Negotiable
324185	07-OCT-11		FRANCHISE TAX BOARD	SACRAMENTO	342.31			Negotiable
324186	07-OCT-11		ORDONEZ, CYNTHIA MARIE	SANTA ANA	589.38			Negotiable
324187	07-OCT-11		FIDELITY INVESTMENTS	CINCINNATI	421.54			Negotiable
324188	07-OCT-11		DEE JASPAR & ASSOCIATES, INC.	PAY	59,204.30			Negotiable
324189	10-OCT-11		DEMSEY, FILLIGER & ASSOCIATES LLC	&PAY	3,500.00			Negotiable
324190	10-OCT-11		DEE JASPAR & ASSOCIATES, INC.	PAY	61,627.86			Negotiable
324191	10-OCT-11		UNITED WAY OF ORANGE COUNTY	LOS ANGELES	970.02			Negotiable
324192	10-OCT-11		PERS LONG TERM CARE	PURCHASE_P AY	1,740.43			Negotiable
324193	10-OCT-11		EWLES MATERIALS	PAY	3,850.00			Negotiable
324194	13-OCT-11		FRANCHISE TAX BOARD	SACRAMENTO	2,500.00			Negotiable
324195	13-OCT-11		FRANCHISE TAX BOARD	SACRAMENTO	800.00			Negotiable

IRWD Ledger Payment Register For 01-OCT-11 To 31-OCT-11 Report Date: 02-NOV-2011 09:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 9
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324196	13-OCT-11		ANTHEM BLUE CROSS	LOS ANGELES	4,037.20			Negotiable
324197	13-OCT-11		ANTHEM BLUE CROSS	LOS ANGELES	360.00			Negotiable
324198	13-OCT-11		ANTHEM BLUE CROSS	LOS ANGELES	1,085.60			Negotiable
324199	13-OCT-11		Anthony Mossbarger		946.76			Negotiable
324200	13-OCT-11		Carl Spangenberg		228.82			Negotiable
324201	13-OCT-11		Didene Martin		90.00			Negotiable
324202	13-OCT-11		Douglas Reinhart		877.24			Negotiable
324203	13-OCT-11		Eliberto Leal		210.00			Negotiable
324204	13-OCT-11		Jacob Moeder		546.00			Negotiable
324205	13-OCT-11		Mary Matheis		1,842.01			Negotiable

324206	13-OCT-11	Michael Hoffman	150.00	Negotiable
324207	13-OCT-11	Peer Swan	1,333.11	Negotiable
324208	13-OCT-11	Raghavender Joshi	154.00	Negotiable
324209	13-OCT-11	Shannon Reed	139.81	Negotiable
324210	13-OCT-11	Steven LaMar	63.88	Negotiable
324211	13-OCT-11	ABBASSI, NABI	449.80	Negotiable
324212	13-OCT-11	ACTION ELECTRIC CORP	718.50	Negotiable
324213	13-OCT-11	AQUA-METRIC SALES COMPANY	325.94	Negotiable
324214	13-OCT-11	ASEFA, WEBESHETE	7.74	Negotiable
324215	13-OCT-11	AST CORPORATION	72,730.00	Negotiable
324216	13-OCT-11	AT&T	1,853.20	Negotiable
324217	13-OCT-11	BAIRD, CHRISTINA	48.60	Negotiable
324218	13-OCT-11	BANK OF AMERICA MERRILL LYNCH	28,198.63	Negotiable
324219	13-OCT-11	BIOMAGIC INC	9,674.87	Negotiable
324220	13-OCT-11	BLACK & VEATCH CORPORATION	779,656.87	Negotiable
324221	13-OCT-11	BLOOMBERG FINANCE LP	16,380.00	Negotiable
324222	13-OCT-11	BOWIE, ARNESON, WILES & GIANNONE	138,572.92	Negotiable
324223	13-OCT-11	BRAUN, ROBERT	624.13	Negotiable
324224	13-OCT-11	BROWN, YONG H	29.97	Negotiable
324225	13-OCT-11	BUXTON, JOSEF	43.95	Negotiable
324226	13-OCT-11	C WELLS PIPELINE MATERIALS INC	7,425.05	Negotiable
324227	13-OCT-11	CALIFORNIA BARRICADE INC	3,295.00	Negotiable
324228	13-OCT-11	CALIFORNIA DEPT OF PUBLIC HEALTH	28,396.26	Negotiable
324229	13-OCT-11	CALPI INC	1,140.01	Negotiable

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 10
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324230		13-OCT-11	CANON BUSINESS SOLUTIONS INC		4,905.13			Negotiable
324231		13-OCT-11	CANON FINANCIAL SERVICES INC		7,849.35			Negotiable
324232		13-OCT-11	CARL WARREN & CO		551.93			Negotiable
324233		13-OCT-11	CARTER, FAYE		0.43			Negotiable
324234		13-OCT-11	CATON, MARK		22.28			Negotiable
324235		13-OCT-11	CDW GOVERNMENT LLC		1,642.84			Negotiable
324236		13-OCT-11	CHOW, STEPHANIE		177.48			Negotiable
324237		13-OCT-11	CHUNG, JANE		34.14			Negotiable
324238		13-OCT-11	CITIGROUP GLOBAL MARKETS INC.		4,442.46			Negotiable
324239		13-OCT-11	CITY OF IRVINE		324.88			Negotiable
324240		13-OCT-11	CITY OF IRVINE		4,447.40			Negotiable
324241		13-OCT-11	CITY OF LAKE FOREST		71,398.87			Negotiable
324242		13-OCT-11	CLCP, LLC		292.04			Voided
324243		13-OCT-11	COATS, JEFFREY		146.30			Negotiable
324244		13-OCT-11	D & H WATER SYSTEMS INC.		7,251.15			Negotiable
324245		13-OCT-11	DATASITE INC		326.00			Negotiable
324246		13-OCT-11	DCSE INC		4,050.00			Negotiable
324247		13-OCT-11	DIGITAL DOLPHIN SUPPLIER		1,389.98			Negotiable
324248		13-OCT-11	DIPROFIO, COLETTE		111.31			Negotiable
324249		13-OCT-11	DUDEK		21,780.00			Negotiable
324250		13-OCT-11	ENVIRONMENTAL EXPRESS INC		889.90			Negotiable
324251		13-OCT-11	ENVIRONMENTAL RESOURCE ASSOCIATES		3,675.77			Negotiable
324252		13-OCT-11	EQUIPCO SALES & SERVICE		1,483.05			Negotiable
324253		13-OCT-11	EXPRESSAIR		70.00			Negotiable
324254		13-OCT-11	FERGUSON, DAVID		5,612.86			Negotiable
324255		13-OCT-11	FORONDA, RACHELLE		41.78			Negotiable
324256		13-OCT-11	FT ZIEBARTH COMPANY		8,107.38			Negotiable
324257		13-OCT-11	FUNG, NICHOLAS		25.27			Negotiable
324258		13-OCT-11	G.M. SAGER CONSTRUCTION CO, INC		4,700.00			Negotiable
324259		13-OCT-11	GALLINA, GABRIELLE		60.77			Negotiable
324260		13-OCT-11	GENERAL CHEMICAL PERFORMANCE		366.75			Negotiable

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324261		13-OCT-11	GEOSCIENCE SUPPORT SERVICES INC		43,558.00			Negotiable
324262		13-OCT-11	GHASEMZADEH, SAEED		25.09			Negotiable
324263		13-OCT-11	GONGS LLC		2,740.57			Negotiable
324264		13-OCT-11	GRAINGER		69.31			Negotiable
324265		13-OCT-11	GRAYBAR ELECTRIC COMPANY		10,623.77			Negotiable
324266		13-OCT-11	GUZMAN, VICTOR		55.30			Negotiable
324267		13-OCT-11	H2O RESOURCES ENGINEERING INC		800.00			Negotiable
324268		13-OCT-11	HDR ENGINEERING INC		1,417.83			Negotiable
324269		13-OCT-11	HILL BROTHERS CHEMICAL COMPANY		7,498.47			Negotiable
324270		13-OCT-11	HOANG, HELLEN		85.28			Negotiable
324271		13-OCT-11	HOME DEPOT USA INC		135.16			Negotiable
324272		13-OCT-11	HSG INC		1,462.00			Negotiable
324273		13-OCT-11	INDUSTRIAL METAL SUPPLY CO		525.60			Negotiable
324274		13-OCT-11	IRVINE COMMUNITY DEVELOPMENT		26.56			Negotiable
324275		13-OCT-11	IRVINE PIPE & SUPPLY INC		214.47			Negotiable
324276		13-OCT-11	IRVINE PROPERTY MANAGEMENT		167.66			Negotiable
324277		13-OCT-11	IRWD-PETTY CASH CUSTODIAN		636.28			Negotiable
324278		13-OCT-11	J.P. MORGAN SECURITIES, INC.		22,684.93			Negotiable
324279		13-OCT-11	JAMMAL, ELYSSA		82.38			Negotiable
324280		13-OCT-11	JOHNSEN, GARRETT		67.64			Negotiable
324281		13-OCT-11	K-TORK ACTUATORS AND CONTROLS		6,083.35			Negotiable
324282		13-OCT-11	KEY EQUIPMENT FINANCE		5,270.55			Negotiable
324283		13-OCT-11	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES		7,925.00			Voided
324284		13-OCT-11	KINGS COUNTY TAX COLLECTOR		5,850.70			Negotiable
324285		13-OCT-11	KOCH MEMBRANE SYSTEMS		753.24			Negotiable
324286		13-OCT-11	KWON, MYOUNGSOO		39.34			Negotiable
324287		13-OCT-11	LEANNA, DANIEL		28.29			Negotiable
324288		13-OCT-11	LEE, SAMUEL		26.31			Negotiable
324289		13-OCT-11	LODER, RANDY		235.41			Negotiable

IRWD Ledger Payment Register For 01-OCT-11 To 31-OCT-11 Report Date: 02-NOV-2011 09:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 12
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324290		13-OCT-11	MAHASENAN, NATESAN		27.47			Negotiable
324291		13-OCT-11	MARK Enterprises, Inc		27,000.00			Negotiable
324292		13-OCT-11	MARKET-THINK LLC		3,700.00			Negotiable
324293		13-OCT-11	MARQUEZ-MANEJA, DOROTHY		21.45			Negotiable
324294		13-OCT-11	MAZZA, NICK		28.68			Negotiable
324295		13-OCT-11	MC MASTER CARR SUPPLY CO		230.00			Negotiable
324296		13-OCT-11	MCELHINNEY, CURTIS		30.51			Negotiable
324297		13-OCT-11	MCR TECHNOLOGIES INC		870.28			Negotiable
324298		13-OCT-11	MONUMENT REALTY		26.56			Negotiable
324299		13-OCT-11	MOUSE GRAPHICS		3,790.30			Negotiable
324300		13-OCT-11	NATIONAL READY MIXED CONCRETE CO		1,644.75			Negotiable
324301		13-OCT-11	NATURE TECH LANDSCAPING INC		832.21			Negotiable
324302		13-OCT-11	NEUHARTH, KRIS		44.02			Negotiable
324303		13-OCT-11	NGUYEN, STACY-NHIT		59.59			Negotiable
324304		13-OCT-11	NIAGARA CONSERVATION CORP.		42,800.00			Negotiable
324305		13-OCT-11	NICHOLS, TERI		145.16			Negotiable
324306		13-OCT-11	NMG GEOTECHNICAL INC		1,677.90			Negotiable
324307		13-OCT-11	NOMURA, DIANNA		69.06			Negotiable
324308		13-OCT-11	OLIN CORPORATION		50,371.08			Negotiable
324309		13-OCT-11	OLSON, SUE		38.98			Negotiable
324310		13-OCT-11	OMIDVAR, FARNAZ		39.03			Negotiable
324311		13-OCT-11	ONESOURCE DISTRIBUTORS LLC		39.65			Negotiable
324312		13-OCT-11	ORANGE COUNTY PUMP		450.24			Negotiable
324313		13-OCT-11	ORANGE, COUNTY OF		4,382.66			Negotiable

324314	13-OCT-11	ORANGE, COUNTY OF	16.50	Negotiable
324315	13-OCT-11	ORTIZ TRACTOR SERVICE	1,399.54	Negotiable
324316	13-OCT-11	PACESETTER INVESTMENT CO	211.13	Negotiable
324317	13-OCT-11	PACIFIC GAS AND ELECTRIC COMPANY	20.19	Negotiable
324318	13-OCT-11	PACIFIC PARTS & CONTROLS INC	8,678.06	Negotiable
324319	13-OCT-11	PACIFIC STRATEGIES	2,500.00	Negotiable
324320	13-OCT-11	PAUL E BRADLEY INC	5,107.50	Negotiable
324321	13-OCT-11	PLANETA, LORI	12.38	Negotiable

IRWD Ledger Payment Register For 01-OCT-11 To 31-OCT-11 Report Date: 02-NOV-2011 09:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 13
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324322		13-OCT-11	PRAXAIR DISTRIBUTION INC		87.71			Negotiable
324323		13-OCT-11	PRISLIN, MICHAEL		23.27			Negotiable
324324		13-OCT-11	PRUDENTIAL OVERALL SUPPLY		1,409.08			Negotiable
324325		13-OCT-11	PSOMAS		162.00			Negotiable
324326		13-OCT-11	RAM AIR ENGINEERING INC		425.00			Negotiable
324327		13-OCT-11	RBF CONSULTING		3,997.08			Negotiable
324328		13-OCT-11	RINGCLEAR LLC		49.92			Negotiable
324329		13-OCT-11	ROOHIAN, RON		137.96			Negotiable
324330		13-OCT-11	SANDERS PAVING INC		55,853.00			Negotiable
324331		13-OCT-11	SANTA MARGARITA WATER DISTRICT		14,017.35			Negotiable
324332		13-OCT-11	SANTIAGO MARITESS		60.19			Negotiable
324333		13-OCT-11	SCHWEICKERT, MATTHEW		14.85			Negotiable
324334		13-OCT-11	SHAMROCK SUPPLY CO INC		950.80			Negotiable
324335		13-OCT-11	SIGMA-ALDRICH INC		93.01			Negotiable
324336		13-OCT-11	SOEHARSONO, JOSIA		62.94			Negotiable
324337		13-OCT-11	SOUTH COAST ANSWERING SERVICE		539.62			Negotiable
324338		13-OCT-11	SOUTHERN CALIFORNIA EDISON COMPANY		88,974.80			Negotiable
324339		13-OCT-11	SOUTHERN CALIFORNIA SECURITY CENTER, INC.		143.43			Negotiable
324340		13-OCT-11	STATE BOARD OF EQUALIZATION		800.00			Negotiable
324341		13-OCT-11	STEVEN ENTERPRISES INC		230.50			Negotiable
324342		13-OCT-11	SUGDEN, KAREN S		785.55			Negotiable
324343		13-OCT-11	SUN, STACY		65.00			Negotiable
324344		13-OCT-11	SUN, ZENEY		14.65			Negotiable
324345		13-OCT-11	SYED, ZAHEERUDDI		28.26			Negotiable
324346		13-OCT-11	T AND S LARSEN MAINTENANCE		360.00			Negotiable
324347		13-OCT-11	TANISAKA, KEN		20.80			Negotiable
324348		13-OCT-11	TESTAMERICA LABORATORIES, INC		600.00			Negotiable
324349		13-OCT-11	TETRA TECH, INC		710.00			Negotiable
324350		13-OCT-11	TIC-OFFICE PROPERTIES		130.31			Negotiable

IRWD Ledger Payment Register For 01-OCT-11 To 31-OCT-11 Report Date: 02-NOV-2011 09:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 14
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324351		13-OCT-11	TRIPAC MARKETING INC		562.77			Negotiable
324352		13-OCT-11	TROPICAL PLAZA NURSERY INC		19,113.00			Negotiable
324353		13-OCT-11	TRUGREEN LANDCARE LLC		620.00			Negotiable
324354		13-OCT-11	UNIVERSITY OF CALIFORNIA		4,830.00			Negotiable
324355		13-OCT-11	US PEROXIDE LLC		13,823.30			Negotiable
324356		13-OCT-11	VAN DAELE HOMES		36.16			Negotiable
324357		13-OCT-11	WALTERS WHOLESALE ELECTRIC		1,140.45			Negotiable
324358		13-OCT-11	WAXIE'S ENTERPRISES, INC		1,012.90			Negotiable
324359		13-OCT-11	WECK LABORATORIES		40.00			Negotiable

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
324360		13-OCT-11	INC WEST COAST SAFETY SUPPLY INC		5,728.10			Negotiable
324361		13-OCT-11	WESTERLUND, JENNIFER		196.07			Negotiable
324362		13-OCT-11	WESTERN EXTERMINATOR COMPANY		950.00			Negotiable
324363		13-OCT-11	WHITE CAP CONSTRUCTION SUPPLY		94.72			Negotiable
324364		13-OCT-11	WIZJOJO, FONNY		32.07			Negotiable
324365		13-OCT-11	ZEE MEDICAL SERVICE CO		59.52			Negotiable
324366		13-OCT-11	Casey Hansen	HOME	142.21			Negotiable
324367		13-OCT-11	MERCHANTS LANDSCAPE SERVICES	LOS ANGELES	13,441.28			Negotiable
324368		13-OCT-11	TRUGREEN LANDCARE LLC	PASADENA	22,200.00			Negotiable
324369		13-OCT-11	TETRA TECH, INC	DENVER	19,741.49			Negotiable
324370		20-OCT-11	NIEDERBERGER, HERBERT E JR.	ROCKLIN	285.40			Negotiable
324371		20-OCT-11	Christian Kessler		235.40			Negotiable
324372		20-OCT-11	Craig Irely		112.06			Negotiable
324373		20-OCT-11	Eric Akiyoshi		496.32			Negotiable
324374		20-OCT-11	ADT SECURITY SERVICES INC		341.08			Negotiable
324375		20-OCT-11	ALHASSAN, WALAID		17.21			Negotiable

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324376		20-OCT-11	APPLIED SPECIATION AND CONSULTING, LLC		4,000.00			Negotiable
324377		20-OCT-11	APPLIED TECHNOLOGY GROUP INC		631.85			Negotiable
324378		20-OCT-11	AQUA-METRIC SALES COMPANY		7,135.42			Negotiable
324379		20-OCT-11	ARCADIS U.S., INC.		12,197.78			Negotiable
324380		20-OCT-11	ARIZONA STATE UNIVERSITY		8,816.00			Negotiable
324381		20-OCT-11	AST CORPORATION		16,983.99			Negotiable
324382		20-OCT-11	AT&T		15.22			Negotiable
324383		20-OCT-11	AT&T		4,617.29			Negotiable
324384		20-OCT-11	AT&T		92.62			Negotiable
324385		20-OCT-11	AT&T		47.25			Negotiable
324386		20-OCT-11	AT&T INTERNET SERVICES		1,124.00			Negotiable
324387		20-OCT-11	ATHENS SERVICES		896.56			Negotiable
324388		20-OCT-11	AUSTIN, FAIGE		29.91			Negotiable
324389		20-OCT-11	AYRES HOTEL AND SUITES (DBA)		7,381.54			Negotiable
324390		20-OCT-11	BILL'S SWEEPING SERVICE INC		805.00			Negotiable
324391		20-OCT-11	BUTLER ENGINEERING INC		23,424.00			Negotiable
324392		20-OCT-11	CALIFORNIA BARRICADE INC		6,616.58			Negotiable
324393		20-OCT-11	CANON BUSINESS SOLUTIONS INC		1,472.37			Negotiable
324394		20-OCT-11	CHO, JACKIE		560.00			Negotiable
324395		20-OCT-11	CITY OF IRVINE		3,431.00			Negotiable
324396		20-OCT-11	CITY OF TUSTIN		385.65			Negotiable
324397		20-OCT-11	COASTAL TRAFFIC SYSTEMS, INC		510.00			Negotiable
324398		20-OCT-11	COMMERCE ENERGY INC		762.94			Negotiable
324399		20-OCT-11	COMPUCOM SYSTEMS, INC.		9,298.01			Negotiable
324400		20-OCT-11	COPE, JOSIAH		66.30			Negotiable
324401		20-OCT-11	CORO SOUTHERN CALIFORNIA		3,000.00			Negotiable
324402		20-OCT-11	CORRPRO COMPANIES INC		2,310.00			Negotiable
324403		20-OCT-11	DEE JASPAR & ASSOCIATES, INC.		40,189.97			Negotiable

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 16
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

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

324404	20-OCT-11	DEPT OF INDUSTRIAL RELATIONS	225.00	Negotiable
324405	20-OCT-11	DIRECTV INC	86.99	Negotiable
324406	20-OCT-11	DISCOVERY SCIENCE CENTER	2,370.48	Negotiable
324407	20-OCT-11	EI&C ENGINEERING INC	7,600.00	Negotiable
324408	20-OCT-11	ENVIRON INTERNATIONAL CORP.	4,300.42	Negotiable
324409	20-OCT-11	ENVIRONMENTAL EXPRESS INC	1,050.56	Negotiable
324410	20-OCT-11	EXPRESSAIR	312.20	Negotiable
324411	20-OCT-11	FEDEX	619.23	Negotiable
324412	20-OCT-11	FEHRINGER, DARCY ^	11.70	Negotiable
324413	20-OCT-11	FISHER SCIENTIFIC COMPANY LLC	362.92	Negotiable
324414	20-OCT-11	FLATIRON WEST INC	536,486.82	Negotiable
324415	20-OCT-11	G.M. SAGER CONSTRUCTION CO, INC	8,500.00	Negotiable
324416	20-OCT-11	GENTERRA CONSULTANTS INC	3,527.00	Negotiable
324417	20-OCT-11	GOVERNMENT FINANCE OFFICERS ASSOCIATION	150.00	Negotiable
324418	20-OCT-11	H2O RESOURCES ENGINEERING INC	600.00	Negotiable
324419	20-OCT-11	HARDY & HARPER INC	12,900.00	Negotiable
324420	20-OCT-11	HILL BROTHERS CHEMICAL COMPANY	2,797.70	Negotiable
324421	20-OCT-11	HILLEBRECHT, WARREN K	164.56	Negotiable
324422	20-OCT-11	HO, PING-TI	50.00	Negotiable
324423	20-OCT-11	HOBSON, GEORGE	20.13	Negotiable
324424	20-OCT-11	HOME DEPOT USA INC	586.71	Negotiable
324425	20-OCT-11	HUNSAKER & ASSOCIATES IRVINE	5,072.99	Negotiable
324426	20-OCT-11	IBM CORPORATION	12,297.00	Negotiable
324427	20-OCT-11	INDUSTRIAL METAL SUPPLY CO	753.21	Negotiable
324428	20-OCT-11	IRVINE PIPE & SUPPLY INC	2,272.19	Negotiable
324429	20-OCT-11	JCI JONES CHEMICALS INC	10,669.45	Negotiable
324430	20-OCT-11	JO, WOON SEONG	13.75	Negotiable

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 17
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324431		20-OCT-11	JOHN G. ALEVIZOS D.O. INC.		1,070.00			Negotiable
324432		20-OCT-11	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES		7,375.00			Negotiable
324433		20-OCT-11	KOELLER NEBEKER CARLSON & HALUCK, LLP		1,349.36			Negotiable
324434		20-OCT-11	KPRS CONSTRUCTION SERVICES, INC		616,900.23			Negotiable
324435		20-OCT-11	LEATHERWOOD CONSTRUCTION INC		402,518.25			Negotiable
324436		20-OCT-11	LEATHERWOOD CONSTRUCTION INC		44,724.25			Negotiable
324437		20-OCT-11	LEE & SAKAHARA ARCHITECTS, INC		2,924.20			Negotiable
324438		20-OCT-11	MALCOLM PIRNIE INC		2,961.28			Negotiable
324439		20-OCT-11	MC MASTER CARR SUPPLY CO		324.23			Negotiable
324440		20-OCT-11	MC NAMARA, EILEEN		36.00			Negotiable
324441		20-OCT-11	MIDRANGE PERFORMANCE GROUP,		1,159.00			Negotiable
324442		20-OCT-11	MWH LABORATORIES		300.00			Negotiable
324443		20-OCT-11	NEWPORT BEACH, CITY OF		519.17			Negotiable
324444		20-OCT-11	NMG GEOTECHNICAL INC		3,969.10			Negotiable
324445		20-OCT-11	OCTA		5,065.00			Negotiable
324446		20-OCT-11	OLIN CORPORATION		15,591.66			Negotiable
324447		20-OCT-11	ORANGE COUNTY TREASURER		70.00			Negotiable
324448		20-OCT-11	ORANGE COUNTY TREASURER		312.20			Negotiable
324449		20-OCT-11	ORANGE COUNTY VECTOR CONTROL DISTRICT		2,737.35			Negotiable
324450		20-OCT-11	ORANGE, COUNTY OF		830,884.82			Negotiable

324451	20-OCT-11	ORJIOKE, JOB		19.26		Negotiable
324452	20-OCT-11	PACIFIC COAST BOLT CORP		3,189.40		Negotiable
324453	20-OCT-11	PAPER DEPOT DOCUMENT DESTRUCTION LLC		779.00		Negotiable
324454	20-OCT-11	PARK, BYOUNG		84.03		Negotiable
324455	20-OCT-11	PAVELIC, CYNTHIA		3,000.00		Negotiable
324456	20-OCT-11	PAZ, JAN		215.07		Negotiable

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324457		20-OCT-11	POWERTECH GROUP INC, THE		1,190.00			Negotiable
324458		20-OCT-11	PTI SAND & GRAVEL INC		516.09			Negotiable
324459		20-OCT-11	R&B AUTOMATION INC		1,163.60			Negotiable
324460		20-OCT-11	RBF CONSULTING		596,517.93			Negotiable
324461		20-OCT-11	RELIANT TESTING ENGINEERS, INC.		6,804.00			Negotiable
324462		20-OCT-11	RMC WATER AND ENVIRONMENT		3,302.71			Negotiable
324463		20-OCT-11	RON TURLEY ASSOCIATES INC		2,200.00			Negotiable
324464		20-OCT-11	SANTA ANA BLUE PRINT		3,186.14			Negotiable
324465		20-OCT-11	SANTA MARGARITA WATER DISTRICT		1,765.86			Negotiable
324466		20-OCT-11	SEQUEL CONTRACTORS, INC.		1,306.26			Negotiable
324467		20-OCT-11	SHAHRESTANY, NEWSHA		34.25			Negotiable
324468		20-OCT-11	SIMI VALLEY LANDFILL AND RECYCLING CENTER		455.00			Negotiable
324469		20-OCT-11	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		1,665.64			Negotiable
324470		20-OCT-11	SOUTHERN CALIFORNIA EDISON COMPANY		204,123.10			Negotiable
324471		20-OCT-11	STANTEC CONSULTING SERVICES INC.		5,796.69			Negotiable
324472		20-OCT-11	STATE BOARD OF EQUALIZATION		817.00			Negotiable
324473		20-OCT-11	TESTAMERICA LABORATORIES, INC		901.20			Negotiable
324474		20-OCT-11	THE GAS COMPANY		4,874.27			Negotiable
324475		20-OCT-11	THE IRVINE COMPANY LLC		1,792.25			Negotiable
324476		20-OCT-11	TRIPAC MARKETING INC		1,041.87			Negotiable
324477		20-OCT-11	TRUGREEN LANDCARE LLC		277.27			Negotiable
324478		20-OCT-11	UNITED SITE SERVICES OF CALIFORNIA INC		483.52			Negotiable

IRWD Ledger Payment Register For 01-OCT-11 To 31-OCT-11 Report Date: 02-NOV-2011 09:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 19
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324479		20-OCT-11	US BANK NAT'L ASSOCIATION NORTH DAKOTA		74,258.60			Negotiable
324480		20-OCT-11	VERIZON CALIFORNIA INC		81.87			Negotiable
324481		20-OCT-11	WALTERS WHOLESALE ELECTRIC		4,167.99			Negotiable
324482		20-OCT-11	WASTE MANAGEMENT OF ORANGE COUNTY		1,516.67			Negotiable
324483		20-OCT-11	WATSON MECHANICAL, INC.		39,750.00			Negotiable
324484		20-OCT-11	WEI, WEI		24.18			Negotiable
324485		20-OCT-11	WESTERN EXTERMINATOR COMPANY		9,482.50			Negotiable
324486		20-OCT-11	WORKPLACE RESOURCE		3,203.43			Negotiable
324487		20-OCT-11	YUN CHOI		30.51			Negotiable
324488		20-OCT-11	ZENCIR, ERTAN		32.52			Negotiable
324489		20-OCT-11	ORDONEZ, CYNTHIA SANTA ANA		589.38			Negotiable

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
324490	20-OCT-11	MARIE INTERNAL REVENUE SERVICE	FRESNO		1,381.76			Negotiable
324491	20-OCT-11	FRANCHISE TAX BOARD	SACRAMENTO		342.31			Negotiable
324492	20-OCT-11	FIDELITY INVESTMENTS	CINCINNATI		421.54			Negotiable
324493	20-OCT-11	PERS LONG TERM CARE	PASADENA 2		1,689.08			Negotiable
324494	20-OCT-11	CLEARINGHOUSE	PHOENIX		528.45			Negotiable
324495	25-OCT-11	US BANK NAT'L ASSOCIATION NORTH DAKOTA	ST. LOUIS		96,446.73			Negotiable
324496	27-OCT-11	Cheryl Kelly			125.02			Negotiable
324497	27-OCT-11	Eric Akiyoshi			336.11			Negotiable
324498	27-OCT-11	Jacob Moeder			66.40			Negotiable
324499	27-OCT-11	Kelly Lew			23.00			Negotiable
324500	27-OCT-11	Kevin Burton			63.40			Negotiable
324501	27-OCT-11	Margaret Pulles			108.05			Negotiable
324502	27-OCT-11	Mark Gingras			22.00			Negotiable
324503	27-OCT-11	Michael Hoolihan			195.08			Negotiable
324504	27-OCT-11	Natalie Pavlovski			99.12			Negotiable
324505	27-OCT-11	Paul Sutton			158.20			Negotiable
324506	27-OCT-11	Robert Jacobson			90.54			Negotiable
324507	27-OCT-11	Scott Williams			228.62			Negotiable
324508	27-OCT-11	Steven Malloy			25.00			Negotiable

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324509	27-OCT-11	ADT SECURITY SERVICES INC			340.00			Negotiable
324510	27-OCT-11	ADVANCED DECORATING CO INC			764.64			Negotiable
324511	27-OCT-11	AIRGAS-WEST, INC.			322.97			Negotiable
324512	27-OCT-11	ALFORD PROPERTIES, LLC			25.56			Negotiable
324513	27-OCT-11	AMERICAN STERLING			43.26			Negotiable
324514	27-OCT-11	AOSAFETY			101.88			Negotiable
324515	27-OCT-11	APPLIED INDUSTRIAL TECHNOLOGIES - CA LLC			919.93			Negotiable
324516	27-OCT-11	AQUA-METRIC SALES COMPANY			9,445.37			Negotiable
324517	27-OCT-11	AT&T			1,220.93			Negotiable
324518	27-OCT-11	AT&T			4,919.15			Negotiable
324519	27-OCT-11	AYRES HOTEL AND SUITES (DBA)			6,457.46			Negotiable
324520	27-OCT-11	BELLO, MIKE AND NANCY			105.00			Negotiable
324521	27-OCT-11	BEST BUY/MIKE CHANEY			1,044.95			Negotiable
324522	27-OCT-11	BIOMAGIC INC			7,404.04			Negotiable
324523	27-OCT-11	BORCHARD SURVEYING & MAPPING, INC.			5,097.50			Negotiable
324524	27-OCT-11	BOWIE, ARNESON, WILES & GIANNONE			61,832.83			Negotiable
324525	27-OCT-11	BRENNTAG PACIFIC INC			6,426.00			Negotiable
324526	27-OCT-11	BROOKFIELD HOMES			35.60			Negotiable
324527	27-OCT-11	BRUCE TAYLOR			133.65			Negotiable
324528	27-OCT-11	BUSH & ASSOCIATES INC			3,880.00			Negotiable
324529	27-OCT-11	BUTIER ENGINEERING INC			19,520.00			Negotiable
324530	27-OCT-11	C WELLS PIPELINE MATERIALS INC			4,903.98			Negotiable
324531	27-OCT-11	CAL WATER PURIFICATION			80.00			Negotiable
324532	27-OCT-11	CALIFORNIA BARRICADE INC			1,230.00			Negotiable
324533	27-OCT-11	CAPITOL ENQUIRY			68.68			Negotiable
324534	27-OCT-11	CDW GOVERNMENT LLC			126.37			Negotiable
324535	27-OCT-11	CH2M HILL, INC			51,748.31			Negotiable
324536	27-OCT-11	CHEN, JOHN			39.79			Negotiable
324537	27-OCT-11	CHUNG, ELENA			52.07			Negotiable

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 21
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324538	27-OCT-11	COOK, STEPHANIE			189.89			Negotiable

324539	27-OCT-11	COX COMMUNICATIONS	212.38	Negotiable
324540	27-OCT-11	CR & R INCORPORATED	11.98	Negotiable
324541	27-OCT-11	D & G SIGNS	70.04	Negotiable
324542	27-OCT-11	DEE JASPAR & ASSOCIATES, INC.	2,114.10	Negotiable
324543	27-OCT-11	DEMARCO, ANDREA	11.64	Negotiable
324544	27-OCT-11	DJ NELSON & SON POOL SERVICE	2,245.61	Negotiable
324545	27-OCT-11	DOERR, BOB J	32.81	Negotiable
324546	27-OCT-11	EAST ORANGE COUNTY WATER DISTRICT	45,909.24	Negotiable
324547	27-OCT-11	ESA PWA	1,315.00	Negotiable
324548	27-OCT-11	EVERGREEN OIL INC	301.50	Negotiable
324549	27-OCT-11	EXPRESSAIR	97.60	Negotiable
324550	27-OCT-11	EXTERRAN ENERGY SOLUTIONS LP	683.26	Negotiable
324551	27-OCT-11	FEDEX	395.87	Negotiable
324552	27-OCT-11	FENG, KATHERINE	24.65	Negotiable
324553	27-OCT-11	FIRST CHOICE SERVICES	1,363.26	Negotiable
324554	27-OCT-11	FISHER SCIENTIFIC COMPANY LLC	1,449.07	Negotiable
324555	27-OCT-11	FRANK LA PLACA EXTERMINATING INC	175.00	Negotiable
324556	27-OCT-11	GANAHL LUMBER CO.	3,327.88	Negotiable
324557	27-OCT-11	GARRISON, RICHARD	26.00	Negotiable
324558	27-OCT-11	GCL ENG'G INC	729.70	Negotiable
324559	27-OCT-11	GENTERRA CONSULTANTS INC	1,285.00	Negotiable
324560	27-OCT-11	GEOSCIENCE SUPPORT SERVICES INC	3,105.00	Negotiable
324561	27-OCT-11	GIBSON, ROBERT	291.87	Negotiable
324562	27-OCT-11	GORM, INC.	1,218.08	Negotiable
324563	27-OCT-11	HALDEMAN INC	905.10	Negotiable
324564	27-OCT-11	HANEY, ELIZABETH	65.00	Negotiable
324565	27-OCT-11	HARRINGTON INDUSTRIAL PLASTICS LLC	1,249.15	Negotiable
324566	27-OCT-11	HDR ENGINEERING INC	142,734.02	Negotiable
324567	27-OCT-11	HEARN, MARIA	32.39	Negotiable
324568	27-OCT-11	HENDERSON, DAVID	31.48	Negotiable
324569	27-OCT-11	HOME DEPOT USA INC	740.08	Negotiable

IRWD Ledger Payment Register For 01-OCT-11 To 31-OCT-11 Report Date: 02-NOV-2011 09:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 22
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324570		27-OCT-11	HYDRO-SCAPE PRODUCTS INC		359.21			Negotiable
324571		27-OCT-11	IBM CORPORATION		58,329.00			Negotiable
324572		27-OCT-11	IRELAND, DEBORAH		56.53			Negotiable
324573		27-OCT-11	IRVINE PIPE & SUPPLY INC		2,293.99			Negotiable
324574		27-OCT-11	IRVINE PROPERTY MANAGEMENT		4.28			Negotiable
324575		27-OCT-11	IRVINE UNIFIED SCHOOL DISTRICT		38,268.57			Negotiable
324576		27-OCT-11	IRWD-PETTY CASH CUSTODIAN		1,409.72			Negotiable
324577		27-OCT-11	JOHANNESSEN, JOHNNIE		1,200.00			Negotiable
324578		27-OCT-11	JOHN MICHAEL COVAS		96.50			Negotiable
324579		27-OCT-11	JP MACHINE TOOL SERVICE		1,949.88			Negotiable
324580		27-OCT-11	KALLER, PAULA		15.62			Negotiable
324581		27-OCT-11	KANTEX COMPANIES		13,996.00			Negotiable
324582		27-OCT-11	KEARNS, JULIE A		23.23			Negotiable
324583		27-OCT-11	KWOK, ALAN		32.07			Negotiable
324584		27-OCT-11	LEE, SUN M		25.56			Negotiable
324585		27-OCT-11	LENNAR HOMES		26.00			Negotiable
324586		27-OCT-11	LEWIS OPERATING CORP		15,655.85			Negotiable
324587		27-OCT-11	LIUBHAN, JEFF		24.44			Negotiable
324588		27-OCT-11	LOCHRIDGE, DAVID		1,000.00			Negotiable
324589		27-OCT-11	LW MCGAW LT		358.10			Negotiable
324590		27-OCT-11	MALCOLM PIRNIE INC		45,637.42			Negotiable
324591		27-OCT-11	MALLEY, JULIE		20.50			Negotiable
324592		27-OCT-11	MC MASTER CARR SUPPLY CO		2,967.01			Negotiable
324593		27-OCT-11	MERCHANTS LANDSCAPE SERVICES INC		2,866.42			Negotiable
324594		27-OCT-11	MILLER, GINA		65.93			Negotiable
324595		27-OCT-11	MILLER, SUSAN		29.05			Negotiable
324596		27-OCT-11	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY		1,500.00			Negotiable

324597	27-OCT-11	NAGANO, HISANORI		24.44	Negotiable
324598	27-OCT-11	NEWPORT NORTH TOWNHOMES		1,838.43	Negotiable
324599	27-OCT-11	NEWPORT REAL ESTATE SERVICES INC		14,826.15	Negotiable

IRWD Ledger Payment Register For 01-OCT-11 To 31-OCT-11 Report Date: 02-NOV-2011 09:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 23
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324600		27-OCT-11	NINYO & MOORE		21,128.50			Negotiable
324601		27-OCT-11	NORTHERN SAFETY CO INC		48.42			Negotiable
324602		27-OCT-11	O'HAREN GOVERNMENT RELATIONS		6,558.65			Negotiable
324603		27-OCT-11	OLIN CORPORATION		7,685.09			Negotiable
324604		27-OCT-11	ONESOURCE DISTRIBUTORS LLC		6,384.19			Negotiable
324605		27-OCT-11	ORANGE COUNTY WATER DISTRICT		925,564.00			Negotiable
324606		27-OCT-11	PACIFIC COAST BOLT CORP		203.16			Negotiable
324607		27-OCT-11	PANATTONI, MARK		54.60			Negotiable
324608		27-OCT-11	PASCAL & LUDWIG CONSTRUCTORS		1,374,831.72			Negotiable
324609		27-OCT-11	PASCAL & LUDWIG CONSTRUCTORS		152,759.08			Negotiable
324610		27-OCT-11	PINNACLE LANDSCAPE COMPANY		5,936.76			Negotiable
324611		27-OCT-11	RALSTON, ROBIN		25.05			Negotiable
324612		27-OCT-11	RAMJAYAM, KUMAR		292.04			Negotiable
324613		27-OCT-11	REFRIGERATION SUPPLIES		194.23			Negotiable
324614		27-OCT-11	REO MODERN REALTY CO		24.65			Negotiable
324615		27-OCT-11	RESPONSE ENVELOPE, INC		1,776.67			Negotiable
324616		27-OCT-11	RHYNE, JEREMY		24.44			Negotiable
324617		27-OCT-11	ROBERTS CONSULTING GROUP, INC.		9,000.00			Negotiable
324618		27-OCT-11	ROCK STRUCTURES CONSTRUCTION COMPANY		38,788.00			Negotiable
324619		27-OCT-11	RUMMANS, SUSAN		20.00			Negotiable
324620		27-OCT-11	SADDLEBACK MEMORIAL MEDICAL		3,000.00			Negotiable
324621		27-OCT-11	SANTIAGO AQUEDUCT COMMISSION		21,492.77			Negotiable
324622		27-OCT-11	SARETSKY, GARY		23.37			Negotiable
324623		27-OCT-11	SCHINDLER ELEVATOR CORPORATION		169.16			Negotiable
324624		27-OCT-11	SEAL ANALYTICAL INC		878.12			Negotiable
324625		27-OCT-11	SHIELDS, DIDI		16.38			Negotiable
324626		27-OCT-11	SHYU, MELODY Y		24.44			Negotiable

IRWD Ledger Payment Register For 01-OCT-11 To 31-OCT-11 Report Date: 02-NOV-2011 09:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 24
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324627		27-OCT-11	SIRIUS COMPUTER SOLUTIONS INC		5,000.00			Negotiable
324628		27-OCT-11	SL & C PROPERTIES		75.01			Negotiable
324629		27-OCT-11	SNYDER LANGSTON L.P.		22,180.50			Negotiable
324630		27-OCT-11	SOTO, NANETTE		20.50			Negotiable
324631		27-OCT-11	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		310.13			Negotiable
324632		27-OCT-11	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		310.13			Negotiable
324633		27-OCT-11	SOUTH COAST WATER DISTRICT		2,335.00			Negotiable
324634		27-OCT-11	SOUTH ORANGE COUNTY WASTEWATER AUTHORITY		57,900.00			Negotiable
324635		27-OCT-11	SOUTHERN CALIFORNIA EDISON COMPANY		84,384.13			Negotiable
324636		27-OCT-11	SOUTHERN COUNTIES LUBRICANTS LLC		1,169.98			Negotiable

324637	27-OCT-11	SOUTHWEST VALVE & EQUIPMENT	9,243.17	Negotiable
324638	27-OCT-11	SPARKLETTES	152.58	Negotiable
324639	27-OCT-11	STANDARD & POOR'S FINANCIAL SERVICES LLC	3,500.00	Negotiable
324640	27-OCT-11	STANTEC CONSULTING SERVICES INC.	199.00	Negotiable
324641	27-OCT-11	STAR REAL ESTATE	15.00	Negotiable
324642	27-OCT-11	STATE BOARD OF EQUALIZATION	3,240.00	Negotiable
324643	27-OCT-11	SUMMERTIME INC	40.69	Negotiable
324644	27-OCT-11	T AND S LARSEN MAINTENANCE	360.00	Negotiable
324645	27-OCT-11	TESTAMERICA LABORATORIES, INC	826.00	Negotiable
324646	27-OCT-11	THE B.E.S.T. METER CO., INC.	181.90	Negotiable
324647	27-OCT-11	THE GAS COMPANY	50.00	Negotiable
324648	27-OCT-11	TIC-RETAIL PROPERTIES	61.57	Negotiable
324649	27-OCT-11	TODAY REAL ESTATE	17.34	Negotiable
324650	27-OCT-11	TRAN, MELISSA H	21.13	Negotiable

IRWD Ledger Payment Register For 01-OCT-11 To 31-OCT-11 Report Date: 02-NOV-2011 09:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 25
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
324651		27-OCT-11	TRUGREEN LANDCARE LLC		357.51			Negotiable
324652		27-OCT-11	URS CORPORATION		531.25			Negotiable
324653		27-OCT-11	US PEROXIDE LLC		6,665.05			Negotiable
324654		27-OCT-11	VALDESUSO, KATHY		103.63			Negotiable
324655		27-OCT-11	VERA, SERVANDO		31.78			Negotiable
324656		27-OCT-11	VERIZON CALIFORNIA INC		275.60			Negotiable
324657		27-OCT-11	VILLA SIENNA APTS		187.55			Negotiable
324658		27-OCT-11	VULCAN MATERIALS COMPANY		1,209.64			Negotiable
324659		27-OCT-11	WALTERS WHOLESALE ELECTRIC		1,134.80			Negotiable
324660		27-OCT-11	WEBER, JEAN-MARC		61.31			Negotiable
324661		27-OCT-11	WINDWOOD GLEN APTS		14.16			Negotiable
324662		27-OCT-11	WORKPLACE RESOURCE		3,283.15			Negotiable
324663		27-OCT-11	YAN, FRANK		31.78			Negotiable
324664		27-OCT-11	YORK INSURANCE SERVICES GROUP INC - CA		7,228.50			Negotiable
324665		27-OCT-11	ZUGHNI, SAM		76.78			Negotiable
Payment Document Subtotal:					11,268,031.99			

Payment Document : IRWD Wire								
9172		11-OCT-11	YORK INSURANCE PAY SERVICES GROUP INC - CA		3,333.86			Negotiable
9173		19-OCT-11	YORK INSURANCE PAY SERVICES GROUP INC - CA		714.96			Negotiable
9174		19-OCT-11	YORK INSURANCE PAY SERVICES GROUP INC - CA		2,573.06			Negotiable
9175		19-OCT-11	U.S. BANK NATIONALST. LOUIS ASSOCIATION		5,034.24			Negotiable
9176		19-OCT-11	BANK OF AMERICA SAN FRANCISCO		5,239.74			Negotiable
9177		19-OCT-11	SUMITOMO MITSUI BANKING CORPORAION NEW YORK		1,985.70			Negotiable
9178		19-OCT-11	BANK OF NEW YORK MELLON TRUST COMPANY NA NEWARK		2,471,975.84			Negotiable

IRWD Ledger Payment Register For 01-OCT-11 To 31-OCT-11 Report Date: 02-NOV-2011 09:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 26
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD Wire								
9179		19-OCT-11	SUMITOMO MITSUI BANKING CORPORAION NEW YORK		5,318.14			Negotiable
9180		19-OCT-11	CITIGROUP GLOBAL MARKETS INC. NEW YORK		2,459,566.59			Negotiable
9181		19-OCT-11	HELABA LANDESBANK NEW YORK		3,982.24			Negotiable

9182	19-OCT-11	HESSEN-THUERINGEN U.S. BANK NATIONALST. LOUIS ASSOCIATION		125,975.94	Negotiable
9183	19-OCT-11	SUMITOMO MITSUI NEW YORK BANKING CORPORATION		135,174.95	Negotiable
9184	19-OCT-11	U.S. BANK NATIONALST. LOUIS ASSOCIATION		250.00	Negotiable
9185	19-OCT-11	HELABA LANDESBANK NEW YORK HESSEN-THUERINGEN		236.93	Negotiable
9186	19-OCT-11	BANK OF AMERICA SAN FRANCISCO		5,363.73	Negotiable
9187	19-OCT-11	BANK OF NEW YORK NEWARK MELLON TRUST COMPANY NA		1,105.92	Negotiable
9188	19-OCT-11	BANK OF AMERICA SAN FRANCISCO		219,269.91	Negotiable
9189	19-OCT-11	MUNICIPAL WATER FOUNTAIN DISTRICT OF ORANGEVALLEY COUNTY		1,288,805.11	Negotiable
9190	19-OCT-11	CALPERS SACRAMENTO		310,269.07	Negotiable
9191	19-OCT-11	CALPERS SACRAMENTO		3,471.49	Negotiable
9192	21-OCT-11	CALPERS SACRAMENTO		169.89	Negotiable
9193	21-OCT-11	CALPERS SACRAMENTO		1.90	Negotiable
9194	31-OCT-11	J.R. FILANC PAY CONSTRUCTION		1,996,046.75	Negotiable
9195	31-OCT-11	J.R. FILANC PAY CONSTRUCTION		2,094,638.01	Negotiable
9196	31-OCT-11	U.S. BANK NATIONALPAY ASSOCIATION		5,794,250.00	Negotiable
9197	31-OCT-11	BANK OF NEW YORK NEWARK MELLON TRUST COMPANY NA		208.33	Negotiable
9198	31-OCT-11	BANK OF NEW YORK NEWARK MELLON TRUST COMPANY NA		3,972.22	Negotiable
9199	31-OCT-11	CALPERS SACRAMENTO		535,957.47	Negotiable
9200	31-OCT-11	INTERNAL REVENUE FRESNO SERVICE		316,244.70	Negotiable
9201	31-OCT-11	FRANCHISE TAX SACRAMENTO BOARD		89,779.16	Negotiable

IRWD Ledger Payment Register For 01-OCT-11 To 31-OCT-11 Report Date: 02-NOV-2011 09:06
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 27
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD Wire								
9202		31-OCT-11	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	20,729.32			Negotiable
9203		31-OCT-11	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO	3,134.29			Negotiable
9204		31-OCT-11	EMPLOYEE BENEFIT SPECIALIST, INC	PAY	25,311.97			Negotiable
9205		31-OCT-11	GREAT WEST YORK INSURANCE SERVICES GROUP INC - CA	DENVER	175,361.61			Negotiable
9206		31-OCT-11		PAY	5,550.71			Negotiable
Payment Document Subtotal:					18,111,003.75			
Bank Account Subtotal :					29,379,035.74			
Report Count : 725		Report Total:			29,379,035.74			

*** End of Report ***

November 28, 2011 ^{DS}
Prepared and
Submitted by: K. Burton ^{KLB}
Approved by: Paul Cook ^{/Coc}.

CONSENT CALENDAR

2011 PROJECT MANUAL

SUMMARY:

The Irvine Ranch Water District's standard form construction contract documents consist of the plans for the project, Project Manual and Construction Manual. The Project Manual, excluding the Special Provisions, Project Technical Specifications and Appendix, was last revised in August 2010. Staff recommends the Board rescind Resolution No. 2011-28 and adopt a resolution revising the Project Manual subject to non-substantive revisions.

BACKGROUND:

IRWD's standard form construction contract documents consist of the plans for the project, Project Manual and Construction Manual. Contents of the Project and Construction Manuals include:

Project Manual

Instruction to Bidders
Notice Inviting Bids
Bid Form
Agreement, Bonds and Insurance
General Provisions
Special Provisions
General Requirements
Project Technical Specifications
Appendix

Construction Manual

General Technical Specifications
Standard Drawings

The manuals are revised periodically, with revisions to the Project manual, excluding the Special Provisions, Project Technical Specifications and Appendix, being approved by resolution. The Project Manual was last revised in August 2010. The plans are project-specific and the Construction Manual is updated as necessary to incorporate changes to IRWD's General Technical Specifications and Standard Drawings. Project plans and the Construction Manual are approved by the General Manager and/or the Director of Engineering and Construction.

The 2011 Project Manual incorporates a few minor edits that have accumulated since August 2010 and two more significant revisions. The first significant revision is due to the recent passage of SB 293 (Padilla) and modifies the Notice Inviting Bids and General Provisions. SB 293 modifies Section 7201 of the Public Contract Code effective January 1, 2012 and limits a retention in excess of five percent from progress payments, unless the Board makes a finding during a properly noticed and normally scheduled public hearing prior to the bid that the project is substantially complex and therefore requires a higher retention amount than five percent and the awarding entity includes both findings and the actual retention amount in the bid documents.

The second significant revision modifies the Instructions to Bidders and Notice Inviting Bids to inform prospective bidders that a prequalified Bidders List accompanies the Notice Inviting Bids and that bids will not be accepted from bidders that are not on the Bidders List. This revision is necessary due to the increasing number of Plan Rooms that collect information on IRWD's advertised construction projects and distribute the information to their subscribers.

A copy of the resolution is attached as Exhibit "A". An edited version of the 2011 Project Manual, with all revisions shown in "track mode", is attached as Exhibit "B". All revisions have been reviewed by IRWD legal counsel.

FISCAL IMPACTS:

Expense for revisions is covered under existing Expenditure Authorizations.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed at the Engineering and Operations Committee on November 15, 2011.

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE SUBJECT TO NON-SUBSTANTIVE CHANGES TO THE DOCUMENTS:

RESOLUTION NO. 2011 -

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT, ORANGE COUNTY,
CALIFORNIA, RESCINDING RESOLUTION NO. 2010-28
AND REVISING STANDARD FORM CONSTRUCTION
CONTRACT DOCUMENTS

LIST OF EXHIBITS:

Exhibit "A" – Resolution
Exhibit "B" – 2011 IRWD Project Manual

EXHIBIT "A"

RESOLUTION NO. 2011 -

RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE RANCH WATER DISTRICT, ORANGE COUNTY, CALIFORNIA, RESCINDING RESOLUTION NO. 2010-28 AND REVISING STANDARD FORM CONSTRUCTION CONTRACT DOCUMENTS

WHEREAS, Irvine Ranch Water District (IRWD) is a California Water District, organized and existing under the California Water District Law; and

WHEREAS, the Board of Directors previously adopted on August 9, 2010 standard form construction contract documents which have undergone minor additions and deletions, and;

WHEREAS, the "IRWD Project Manual", which includes General Provisions, has been rewritten, including revisions to reflect the latest legislative changes and statutes, and "The IRWD Construction Manual", which includes General Technical Specifications and Standard Drawings, is revised on an ongoing basis.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of IRWD as follow:

Section 1. That the Project Manual of Irvine Ranch Water District as set forth in Exhibit "A" attached hereto, (excluding the Special Provisions, Project Technical Specifications and Appendix) be and hereby are approved and adopted.

Section 2. The General Manager and/or the Director of Engineering and Construction are hereby authorized to make and approve amendments to the General Technical Specifications and Standard Drawings as contained in ongoing revisions of the District's Construction Manual. The General Manager shall make periodic reports to the Board of Directors relative to such changes which have been approved.

Section 3. That Resolution No. 2010-28 adopted on August 9, 2010 be rescinded in its entirety.

ADOPTED, SIGNED AND APPROVED this 28th day of November 2011.

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

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

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

EXHIBIT “B”

A COPY OF EXHIBIT “B”
MAY BE OBTAINED
FROM THE
DISTRICT SECRETARY

November 28, 2011
Prepared by: S. Malloy/P. Uematsu/
M. Cortez
Submitted by: K. Burton
Approved by: Paul Cook 

CONSENT CALENDAR

UPCOMING PROJECTS STATUS REPORT

SUMMARY:

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

BACKGROUND:

Attached as Exhibit "A" is a Projects Status Report which is submitted quarterly to the Engineering and Operations Committee and the Board for their review.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed at the Engineering and Operations Committee on November 15, 2011.

RECOMMENDATION:

RECEIVE AND FILE.

LIST OF EXHIBITS:

Exhibit "A" – Upcoming Projects Status Report

IRWD UPCOMING PROJECT STATUS REPORT

Project Name	Planning	Start	Construction	Construction
	Start	Design	Award	Final Acceptance
OPA PRVs and Fire Flow Improvements				Spring 2012
OPA Chapman Meter Relocation				Spring 2012
RMS at 5 DW Reservoirs		Winter 2013		
SCWD BPS Generators/Walls			Winter 2012	Summer 2012
NTS Site 62 & SAMS1			Winter 2012	Fall 2012
Newport Blvd. (SAH) Waterline Relocation				Summer 2012
Trabuco Road Bridge DW and RW Upsizing				Winter 2012
University Drive Pipelines Cathodic Protection				Summer 2012
Operations Center Expansion - Mezzanine Conversion				Spring 2012
Santiago Dam and Outlet Tower Seismic Stability Study	On-going			
Alton Parkway, Commercentre to Towne Centre (City)				Spring 2012
Alton Parkway, Irvine Boulevard to Commercentre (County)				Spring 2012
OPA 16" Pipeline Replacement				Spring 2012
Barranca-Dyer Redhill Widening -Misc Relocations (RA w/ COI)				Winter 2012
Zone C Pipeline Relocation Lake Forest Glass Creek Sports Park (RA w/ LF)			Spring 2012	Spring 2013
Lake Forest Rancho Parkway Extension (RA w/ LF)			Winter 2012	Winter 2013
PA 40 Capital Pipelines DW & RW, Phase 2 (RA w/ ICDC)			Summer 2011	Spring 2012
Capital Pump Sta Zone A to B (completion concurrent w/ PA 40 Phz 3)		Winter 2012	Summer 2012	Spring 2013
PA 39 Phase I Capital Pipelines S & RW, (RA w/ ICDC)				Summer 2012
PA-6 PH2 Neighborhood 3 MCAS RW Zone C 12" (RA w/ ICDC)			Summer 2012	Summer 2013
PA-9B Jeffrey Road Zones 3, A, B and C Pipelines (RA w/ICDC)			Summer 2012	Summer 2013
Tustin Ranch Road (RA w/Tustin)			Fall 2011	Fall 2012
Bee Canyon Pump Station			Winter 2012	Winter 2013
Bake Pkwy S.D. Creek to Future Lake Forest RA w/ ICDC 12" DW 24" RW				Summer 2012
Lake Forest Drive, Bake Pkwy to Romano RA w/ ICDC 12" DW 24" RW				Summer 2012
MWRP Biosolids and Energy Recovery Facilities			Fall 2012	Spring 2015
MWRP Phase 2 Expansion				Fall 2012
DRWF Well Starters 10 & 16				Winter 2012
Lake Forest (LAWD) PLC Replacement and Control System Upgrades			Summer 2012	Winter 2013
Water Operations Transdyn Replacement				Spring 2012
Sand Canyon Avenue Grade Separation				Fall 2014
Well 21 & 22 Wellhead Facilities				Summer 2012
Well 21 & 22 Pipelines				Summer 2012
Well 21 & 22 Treatment Plant (Design/Build)				Summer 2012
Baker Water Treatment Plant			Summer 2012	Winter 2014
PA 18 Zone 3 to 4 and B to C Booster Pump Stations		Winter 2012		
Well 78 Replacement				Spring 2012
Well LF-2 Wellhead Facilities				Fall 2012

A-1

EXHIBIT "A"

November 28, 2011

Prepared by: M. Hoolihan *MH*

Submitted by: G. Heiertz *GH*

Approved by: Paul Cook *PC*

WORKSHOP

WATER DEMAND FACTOR STUDY

SUMMARY:

As part of the Water Resources Master Plan (WRMP) update, staff has been working with RBF Consulting to complete a Water Demand Factor Study. The Water Demand Factor Study focused predominately on the top 15 future demand factors for IRWD's service area for the period from 2010 to 2035. Staff will make a presentation of the findings at the November 28, 2011 Board meeting and detail the next steps for completing the WRMP update.

BACKGROUND:

The WRMP analyzed the water demand factors for the land use categories with the greatest future growth within IRWD. This analysis studied the 15 land use categories with the highest estimated future water demands growth within IRWD. These top 15 land use categories account for approximately 84 percent of the total future demands growth in IRWD. Recommendations for changes to the current IRWD Water Demand Factors for the land uses analyzed in this study are summarized in the table below and described in more detail in the Executive Summary, which is attached as "Exhibit "A".

Summary of Recommended Demand Factors

Land Use Code	Land Use Description	Demand Factors		Difference (%)
		Current	Proposed	
Residential Local Demands (GPD/DU)				
1132	Low Density – Irvine	405	310	-23
1135	Suburban Density – County	430	420	-2
1162	Medium Density – Irvine	335	320	-4
1172	Medium-High Density – Irvine	185	150	-19
1182	High Density – Irvine	160	125	-22
1192	High-Rise Density – Irvine	170	130	-23
Irrigation Demands (GPD/AC)				
1132	Low Density – Irvine	2,500	2,200	-12
1172	Medium-High Density – Irvine	3,000	2,400	-20
1210	General Office	3,000	2,500	-17
1820	Community Park	3,500	2,200	-37
1830	Regional Park	2,100	2,200	5
Commercial Local Demands (GPD/KSF)				
1210	General Office	60.0	72.0	20
1211	Community Commercial	185.0	175.0	-5

The recommended demand factors will be input into IRWD's Demand Forecasting Tool and a final calibration of the factors will be completed. Staff will also be calibrating the factors to the entire IRWD billing database and water purchase history files. Through this process staff anticipates making further minor adjustments to the recommended factors. The final demand factors will be published in the WRMP update and used in on-going IRWD planning studies including water supply assessments, recycled water use estimates, and seasonal storage analysis.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

This project is exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15262 which provides exemption for planning studies.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on November 15, 2011.

RECOMMENDATION:

RECEIVE AND FILE.

LIST OF EXHIBITS:

Exhibit "A" – Water Demand Factor Study Executive Summary



Exhibit A

CHAPTER 1 – EXECUTIVE SUMMARY

1.1 INTRODUCTION

The Irvine Ranch Water District (IRWD, District) frequently updates its water demand forecast to reflect changes in land uses, climatic, economical and customer practices. This forecast is used to estimate water supply requirements, water reclamation plant expansions and seasonal storage analysis.

The purpose of this study is to accurately estimate the future development component of the water demand forecast for IRWD's service area for the period from 2010 to 2025. This study will analyze the water demand factors for the land uses categories within IRWD's boundaries with greatest future water demand growth during that period. The study's limited scope is to be used for this purpose and is not intend to be used for other, more global purposes.

1.2 PLANNED LAND USE AND PROJECTED WATER DEMANDS

In 2000, IRWD completed the Water Resources Master Plan (WRMP). Portions of the WRMP were updated in 2003. In June 2008, the WRMP was updated to show the current land use designations and demand factors used by IRWD for demand projections and planning.

Based on IRWD's current water demand factors and the proposed future land uses within IRWD's service area from 2010 to 2025, IRWD should anticipate an increase in local demands of approximately 16.8 million gallons per day (MGD) and an increase in irrigation water demands of approximately 10.5 MGD between 2010 and 2025. This sums to a total increase in water demands of approximately 27.3 MGD between 2010 and 2025.

1.3 METHODOLOGY FOR ESTIMATING WATER DEMANDS

IRWD has 31 land use categories with growth projected between 2010 and 2025. This analysis will study the fifteen (15) land use categories with the highest estimated water demands. Based on the proposed future land uses and the existing water demand factors, the fifteen highest future water demands by land use are shown in order in Table 1.1.

The top fifteen land use categories will contribute approximately 91 percent of the total future local demands, 74 percent of the total irrigation demands and 84 percent of the total demands. Based on these estimates, study of the land uses shown above will be sufficient to estimate the total future water demands.

Table 1.1: Highest Future Water Demands by Land Use



Code	Land Use Description	Agency	Growth (Ac)	Local Demands (MGD)	Irrigation Demands (MGD)	Total Demands (MGD)	Rank
1830	Regional Park		2577		4.329	4.329	1
1172	Medium-High Density	Irvine	1267	4.102		4.102	2
1182	High Density	Irvine	568	2.954		2.954	3
1162	Medium Density	Irvine	888	2.231		2.231	4
1820	Community Park		540		1.701	1.701	5
1132	Low Density	Irvine	1301	1.581		1.581	6
1210	General Office		1015	1.218		1.218	7
1192	High Rise Density	Irvine	118	0.802		0.802	8
1221	Community Commercial		397	0.661		0.661	9
1131	Low Density	City of Orange	263	0.631		0.631	10
1210	General Office		1015		0.609	0.609	11
1141	Low-Medium Density	City of Orange	135	0.602		0.602	12
1172	Medium-High Density	Irvine	1267		0.570	0.570	13
1132	Low Density	Irvine	1301		0.488	0.488	14
1135	Suburban Density	County of Orange	117	0.465		0.465	15
	Totals			15.248	7.697	22.945	

1.4 DATA COLLECTION AND ANALYSIS

Two data sets were used for the water demands analysis. The first was IRWD’s monthly billing data by account for the period from January 2000 through December 2010. The second data set was IRWD’s GIS database.

The residential local water demands factors were analyzed on a tract basis. All tracts in which the existing units equaled the future units in the GIS data, and in which the number of dwelling units in the GIS data agreed with the GPS locations for residential water users’ meters were included in the analysis. For the irrigation application rate and commercial local water demand analyses, annual demands were analyzed on a water meter basis.

The local water demands for more than 42,000 water meters were included in the residential local water demands analysis. The data set for the irrigation water demand analysis included more than 1,200 irrigation water meters. The local water demands for more than 350 meters were included in the commercial local water demands analyses. Table 1.2 provides a summary of the data set.

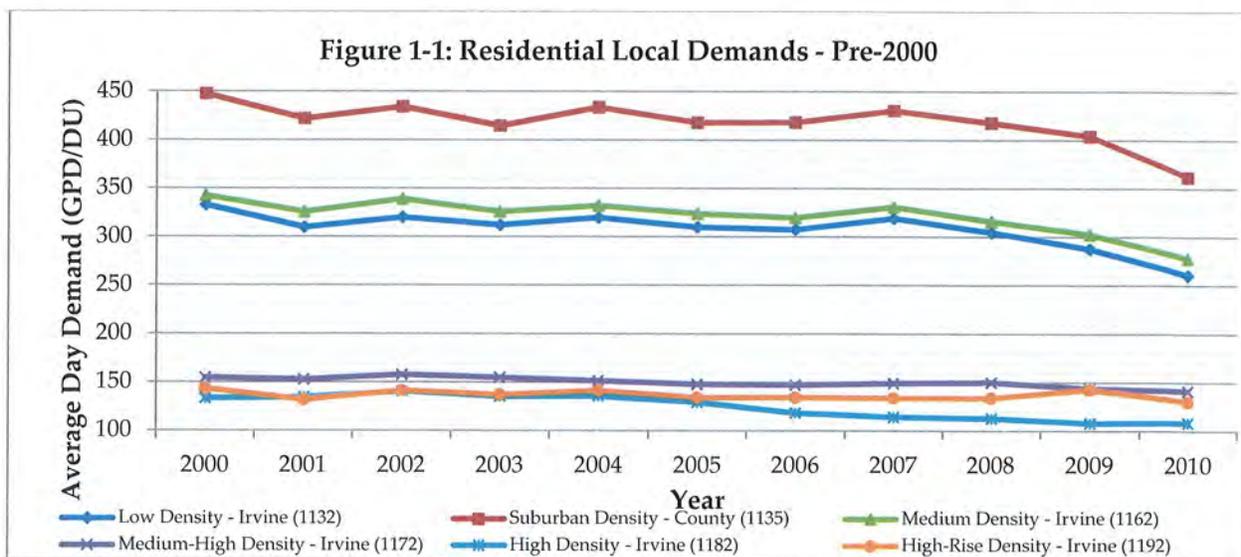
Table 1.2: Number of Meters in Analysis



Land Use Code	Land Use Description	Type	No. of Meters
1131	Low Density - Orange	Local	0
1132	Low Density - Irvine	Local	5,158
1132	Low Density - Irvine	Irrigation	261
1135	Suburban Density - County	Local	4,178
1141	Low-Medium Density - Orange	Local	0
1162	Medium Density - Irvine	Local	27,859
1172	Medium-High Density - Irvine	Local	5,033
1172	Medium-High Density - Irvine	Irrigation	411
1182	High Density - Irvine	Local	33
1192	High-Rise Density - Irvine	Local	16
1210	General Office	Local	198
1210	General Office	Irrigation	346
1211	Community Commercial	Local	174
1820	Community Park	Irrigation	156
1830	Regional Park	Irrigation	39
Total			43,862

1.5 DEMAND FACTORS

The average daily local water usage for the residential land uses with the most local water use growth planned was calculated for the years 2000 through 2010. The average annual daily local water demand by year is shown in Figure 1-1 for each of the six residential land use categories with built-out tracts before 2000. Figure 1-2 provides a graphical summary of the irrigation application rates for the five land use categories in this study.



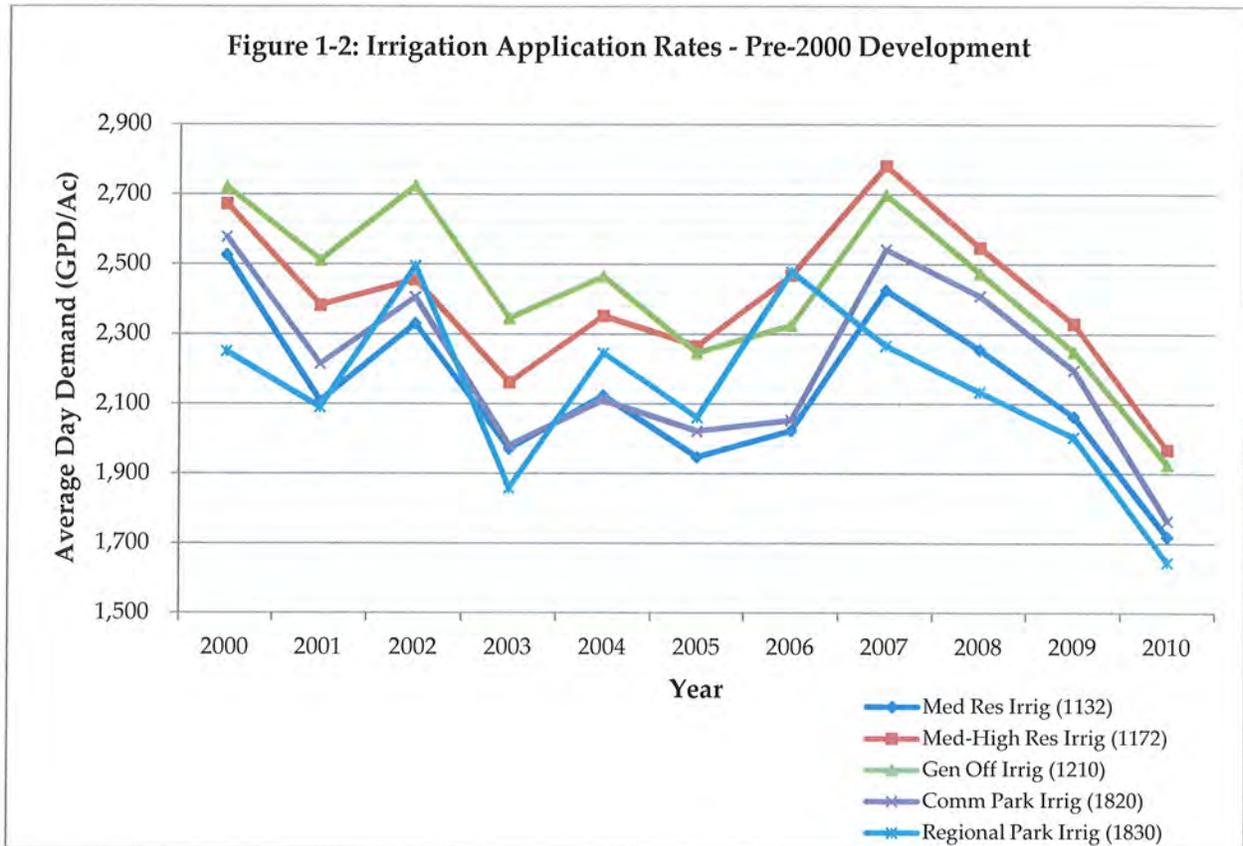


Table 1.3 provides a summary of the calculated percentages for the five irrigation demand factors included in this study.

Table 1.3: Percentage of Area Irrigated

Code	Land Use Description	Study % Area Irrigated	Current IRWD Factor
1132	Low Density (Irvine)	16%	15%
1172	Medium-High Density (Irvine)	22%	15%
1210	General Office	20%	20%
1820	Community Park	86%	90%
1830	Regional Park	75%	80%

Figure 1-3 provides a graphical summary of the two commercial local water demand factors in this study. Table 1.4 provides a summary of the calculated commercial building densities for the two commercial land uses included in this study.

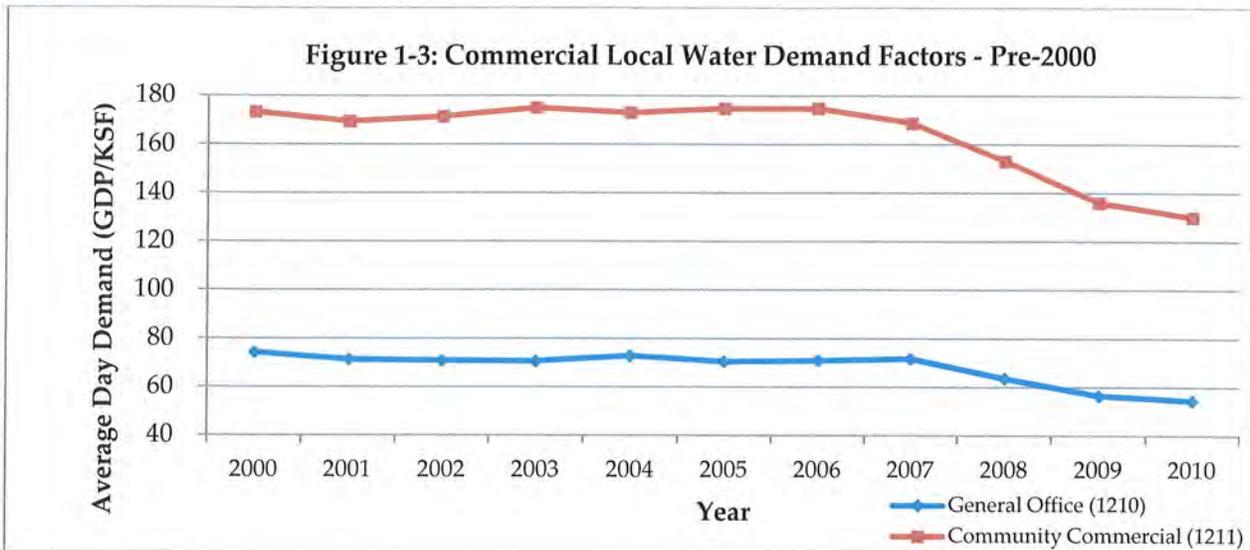


Table 1.4: Commercial Building Densities

Code	Land Use Description	Study Bldg Density	Current IRWD Factor Bldg Density
		(KSF/Ac)	
1210	General Office	26.35	20.00
1211	Community Commercial	9.43	9.00

1.6 OBSERVATIONS AND RECOMMENDATIONS

The recommended local demand factors for residential development are equal to the average for the entire 11 year study period. Due to extreme weather patterns, significant regional conservation outreach and a severe economic recession, the recommended irrigation demand factors are equal to the average demands for the years from 2000 to 2006. Due to underutilization during the majority of the study period, the recommended local demand factors for commercial development are equal to the average demands for the 2006 – 2007 time period.

Based on the various analyses presented in this report, recommendations for changes to the current IRWD water demand factors were identified. Table 1.5 presents a summary of IRWD’s recommended water demand factors for the 15 land uses analyzed in this study.

Table 1.5: Recommended Demand Factors



Land Use Code	Land Use Description	Study Average	Recommended Demand Factor	Current IRWD Factor	Difference	
Residential Local Demands						
		(GPD/DU)				%
1132	Low Density - Irvine	308	310	405	(95)	-23
1135	Suburban Density - County	419	420	430	(10)	-2
1162	Medium Density - Irvine	322	320	335	(15)	-4
1172	Medium-High Density - Irvine ^a	150	150	185	(35)	-19
1182	High Density - Irvine	125	125	160	(35)	-22
1192	High-Rise Density - Irvine	137	130	170	(40)	-23
Irrigation Demands						
		(GPD/AC)				%
1132	Low Density - Irvine	2,148	2,200	2,500	(300)	-12
1172	Medium-High Density - Irvine	2,395	2,400	3,000	(600)	-20
1210	General Office	2,478	2,500	3,000	(500)	-17
1820	Community Park	2,196	2,200	3,500	(1,300)	-37
1830	Regional Park	2,212	2,200	2,100	100	5
Commercial Local Demands						
		(GPD/KSF)				%
1210	General Office	71.76	72.00	60.00	12	20
1211	Community Commercial	174.9	175.0	185.0	(10)	-5

Table 1.6 presents the recommended percentage of total development area that is irrigated for the five irrigation demand factors included in the study.

Table 1.6: Recommended Percentage of Area Irrigated Factors

Land Use Code	Land Use Description	Average	Recommended Percentage Factor	Current IRWD Factor	Difference	
		(%)				%
1132	Low Density - Irvine	16	15	15	-	-
1172	Medium-High Density - Irvine	22	20	15	5	33
1210	General Office	20	20	20	-	-
1820	Community Park	86	90	90	-	-
1830	Regional Park	75	75	80	(5)	-6



Table 1.7 presents the recommended building area in relationship to total development area for the two commercial demand factors included in the study.

Table 1.7: Recommended Commercial Building Density Factors

Land Use Code	Land Use Description	2010 Average	Recommended Demand Factor	Current IRWD Factor	Difference	
		(KSF/Ac)				%
1210	General Office	26.35	26.50	20.00	6.50	33
1211	Community Commercial	9.43	9.50	9.00	0.50	6

November 28, 2011

Prepared and

Submitted by: Debby Cherney 

Approved by: Paul Cook 

WORKSHOP

UPDATE ON RETIREMENT AND HEALTH BENEFITS STUDY

SUMMARY:

As a continuation of the workshop discussions from the Board Strategic Planning Workshop on October 7, 2011 and the Finance and Personnel Committee (Committee) meetings on November 1 and November 22, 2011, staff and consultants from Aon Hewitt (Aon) will update the Board on the CalPERS valuations and alternative valuations using different discount rates. Staff and Aon will also review the retirement program objectives articulated by the Board at its strategic planning workshop. Using these objectives, Aon is working to develop alternative retirement plan designs including one that mirrors Governor Brown's pension reform proposals issued in late October 2011.

BACKGROUND:

On September 12, 2011 the Board authorized the retention of Aon Hewitt and Hanson Bridgett to perform a study to evaluate potential changes to the District's retirement and health benefits. As part of the study, a series of workshops has been and will continue to be conducted with the Committee and the full Board on topics which are outlined in the project schedule attached as Exhibit "A".

Focusing exclusively on retirement benefits, at the Board workshop on October 7, 2011, the Board identified a series of high-level objectives and asked Aon Hewitt to model a variety of options that may meet those objectives. Those objectives included the following:

1. Any changes to the retirement plans must be explained to employees and ratepayers in the context of:
 - a. Appropriate pay and benefits package, and a well understood competitive position, and
 - b. Need to provide exceptional water and wastewater service at competitive prices.
2. Develop retirement income program with a sustainable cost structure.
 - a. Ongoing contribution level around 10 to 15% of payroll;
 - b. Mechanism to control year-to-year cost volatility; and
 - c. Maintain healthy funded position based on reasonable market expectations.
3. Deliver adequate retirement benefits.
 - a. Provide opportunity for employees to accumulate sufficient retirement income;
 - b. District-paid benefits should target no more than 65% income replacement for a full career employee;
 - c. Target replacement income at age 65; and
 - d. Provide ability to retire early (through a supplemental benefit for field employees under certain circumstances.
4. Retirement program should encourage employee savings.

5. Employer should bear a portion of the investment and longevity risks and the program should have a defined benefit component.
6. The District will be fair and equitable to current and former employees.
7. Ideally, the District should maintain a single retirement structure for all current and future employees.

At the November 1, 2011 Committee meeting, the Aon team reviewed updated valuations using alternative discount rates. A summary of that discussion follows in the table below:

	CalPERS Valuation at June 30, 2010	CalPERS estimated at August 31, 2011	Bond Rates estimated at August 31, 2011	Termination estimated at August 31, 2011
Discount Rate	7.75%	7.75%	6.0%	3.8%
Accrued Liability	\$158.9 million	\$173.0 million	\$220.5 million	\$264.6 million
Market Value of Assets	\$100.1 million	\$119.7 million	\$119.7 million	\$119.7 million
Surplus / (Deficit)	(\$58.8 million)	(\$53.3 million)	(\$100.8 million)	(\$144.9 million)
Funded Status	63%	69%	54%	45%
Employer Cost:				
Employer Normal Cost		\$1.9 million	\$3.6 million	
District-Paid Employee Cost		\$1.3 million	\$1.3 million	
Hurdle Rate: % of Assets Dollars		13% \$15.5 million	14% \$17.0 million	
Amortization of Deficit:				
10 years		\$7.8 million	\$13.7 million	
15 years		\$6.1 million	\$10.4 million	
20 years		\$4.6 million	\$7.3 million	
Total Employer Cost:				
10 years		\$11.0 million (42%) ¹	\$18.6 million (71%)	
15 years		\$9.3 million (35%)	\$15.3 million (58%)	
20 years		\$7.8 million (30%)	\$12.2 million (46%)	

As part of the Board workshop, the Aon team will review these estimated valuations and impacts. Following the discussion of valuations and objectives, the Board will convene in closed session to discuss the legal implications associated with alternative retirement plan design scenarios.

Health Benefits Discussion:

At the December 6, 2011 Committee meeting, representatives from Aon will begin discussing the health benefits aspects of the study.

¹ Percentage of payroll is based on \$26.3 million annual payroll.

FISCAL IMPACTS:

On September 12, 2011, the Board approved an addition of \$335,000 to the FY 2011-12 Operating Budget, and authorized a contract with Aon up to \$150,000 and with Hanson Bridgett up to \$50,000. The fiscal impacts of changes, if any, to the retirement and health benefits, will be determined through the course of the study itself.

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 reviewed by the Board on October 7, 2011, and by the Finance and Personnel Committee on November 1 and November 22, 2011.

RECOMMENDATION:

RECEIVE AND FILE.

LIST OF EXHIBITS:

Exhibit "A" – Updated Project Schedule

Exhibit "A"



PROPOSED SCHEDULE

Consulting Services to Evaluate Changes to Irvine Ranch Water District's Retirement and Health Benefits Package

Updated November 23, 2011

Request for Proposal Issued	April 20, 2011
Deadline for RSVP to Pre-Proposal Meeting	May 3, 2011 at 4:00 p.m.
Pre-Proposal Meeting	May 5, 2011 at 9:00 a.m.
Questions and Additional Documents Provided	May 12, 2011
Proposal Deadline	June 1, 2011 at 2:00 p.m.
Interviews of Selected Finalists	August 10 and 12, 2011
Finance & Personnel Committee Discussion	August 19, 2011
Finance & Personnel Committee Interviews	August 31, 2011
Board Approval	September 12, 2011
Notice of Award	September 13, 2011
CalPERS census data received	September 22, 2011
Finance & Personnel Committee Meeting (Basic information and assumptions, objectives framework)	October 4, 2011
Board Objective Setting – Strategic Planning Workshop (High level objectives, education on current retirement programs)	October 7, 2011
Finance & Personnel Committee Meeting (Review financial and actuarial models – retirement benefits , begin evaluating alternatives)	November 1, 2011
Finance & Personnel Committee Meeting (Review financial and actuarial models – retirement benefits , additional alternatives)	November 22, 2011
<hr/>	
Board Workshop (Set detailed objectives, discuss alternatives)	November 28, 2011
Finance & Personnel Committee Meeting (Review alternatives, Review health benefits)	December 6, 2011
Board Workshop – Alternatives, Health Benefits	December 12, 2011
Finance & Personnel Committee Meeting (Recommend preferred alternatives)	TBD January, 2012
Board Workshop – Review preliminary recommendations Refine alternatives as needed through Finance & Personnel Meetings and additional Board workshops	TBD January, 2012
Salary and Benefit Survey Methodology and Final Report	February/March 2012 March 2012

*Additional Special Finance & Personnel Committee meeting or Board Workshops may be scheduled as project progresses.