



## **AGENDA**

### **MEETING OF THE BOARD OF DIRECTORS**

**WEDNESDAY, NOVEMBER 18, 2015  
10:00 A.M.**

**INLAND EMPIRE UTILITIES AGENCY\*  
AGENCY HEADQUARTERS  
6075 KIMBALL AVENUE, BUILDING A  
CHINO, CALIFORNIA 91708**

#### **CALL TO ORDER** **OF THE INLAND EMPIRE UTILITIES AGENCY BOARD OF DIRECTORS MEETING**

#### **FLAG SALUTE**

#### **PUBLIC COMMENT**

Members of the public may address the Board on any item that is within the jurisdiction of the Board; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) of Section 54954.2 of the Government Code. Those persons wishing to address the Board on any matter, whether or not it appears on the agenda, are requested to complete and submit to the Board Secretary a "Request to Speak" form which are available on the table in the Board Room. Comments will be limited to five minutes per speaker. Thank you.

#### **ADDITIONS TO THE AGENDA**

In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda require two-thirds vote of the legislative body, or, if less than two-thirds of the members are present, a unanimous vote of those members present, that there is a need to take immediate action and that the need for action came to the attention of the local agency subsequent to the agenda being posted.

#### **NEW HIRE INTRODUCTION**

- Ms. Laura Mantilla, hired on 10/27/15 (April Woodruff)
- Mr. Antonio Arrellano, hired on 10/12/15 (Sharmeen Bhojani)

#### **1. CONSENT CALENDAR**

**NOTICE:** All matters listed under the Consent Calendar are considered to be routine and non-controversial and will be acted upon by the Board by one motion in the form listed below. There will be no separate discussion on these items prior to the time the Board votes unless any Board members, staff or the public requests specific items be discussed and/or removed from the Consent Calendar for separate action.

**A. MINUTES**

The Board will be asked to approve the minutes from the October 14, 2015 Special Board meeting.

**B. TREASURER'S REPORT ON GENERAL DISBURSEMENTS**

It is recommended that the Board approve the total disbursements for the month of September 2015, in the amount of \$11,604,862.68.

**C. RATIFICATION OF SAP BUSINESSOBJECTS LICENSE PURCHASE**

It is recommended that the Board ratify the sole-source purchase of the SAP BusinessObjects analytics tools, including license conversion and the first year's maintenance in the amount of \$99,600.

**D. WAXIE CONTRACT AMENDMENT**

It is recommended that the Board:

1. Authorize a contract amendment to the competitively-let contract with Waxie Sanitary Supply of Ontario, through November 30, 2017; for the supply and delivery of janitorial and related supplies; and
2. Authorize the Manager of CFS to execute Contract Amendment Number 4600000672-005.

**E. RESOLUTION NO. 2015-11-1, APPROVING AN AMENDMENT TO THE 2013-2018 MEMORANDUM OF UNDERSTANDING (MOU) FOR THE GENERAL UNIT**

It is recommended that the Board adopt Resolution No. 2015-11-1 amending the 2013 through 2018 MOU for the General Employees' Association, General Unit to allow unit employees assigned to the Inland Empire Regional Composting Authority (IERCA) to work a 4/10 schedule.

**F. ADOPTION OF RESOLUTION NOS. 2015-11-2 THROUGH 4 FOR THE REGIONAL WATER RECYCLING PROGRAM**

It is recommended that the Board:

1. Adopt Resolution No. 2015-11-2, authorizing the General Manager to sign and file application and agreement with the State Water Resources Control Board (SWRCB), for the design and construction of the Joint Inland Empire Utilities Agency (IEUA)-Jurupa Community Services District (JCSD) Regional Water Recycling Program (Project);
2. Adopt Resolution No. 2015-11-3, dedicating net revenues for the repayment of SRF loan from the SWRCB for the Project;
3. Adopt Resolution No. 2015-11-4, establishing its intention to apply for and be reimbursed for expenditures related to the construction of the Project; and,

4. Authorize the General Manager to negotiate an agreement with the Chino Basin Regional Financing Authority (CBRFA) that allows IEUA to become the lead agency to apply for the SRF loan and grant on behalf of the CBRFA for the Project, and authorizes IEUA to pay CBRFA its portion of the project's match share and debt that is incurred by CBRFA as the recipient of the SRF loan and grant.

**G. ADOPTION OF RESOLUTION NO. 2015-11-5, FOR THE HABITAT CONSERVATION FUND (HCF)**

It is recommended that the Board:

1. Adopt Resolution No. 2015-11-5, approving the application for grant funds from the HCF Program, under the California Wildlife Protection Act of 1990; and
2. Authorize the General Manager or in his absence, his designee, to conduct all negotiations, execute and submit all documents, including but not limited to applications, agreements, and amendments, which may be necessary for the completion of the project.

**H. ADOPTION OF RESOLUTION NOS. 2015-11-8 THROUGH 10 FOR THE RECYCLED WATER INTERTIE PROJECT**

It is recommended that the Board:

1. Adopt Resolution No. 2015-11-8, authorizing the General Manager to sign and file application and agreement with the State Water Resources Control Board (SWRCB), for the design and construction of the City of Pomona (Pomona), Monte Vista Water District (MVWD), and Inland Empire Utilities Agency (IEUA) Recycled Water Intertie Project (Project);
2. Adopt Resolution No. 2015-11-9, dedicating net revenues for the repayment of State Revolving Fund (SRF) loan from the SWRCB for the Project;
3. Adopt Resolution No. 2015-11-10, establishing its intention to apply for and be reimbursed for expenditures related to the construction of the Project; and
4. Authorize the General Manager to negotiate an agreement with the Chino Basin Regional Financing Authority (CBRFA) that allows IEUA to become the lead agency to apply for the SRF Loan/Grant on behalf of the CBRFA for the Project, and authorizes IEUA to pay CBRFA its portion of the project's match share and debt that is incurred by CBRFA as the recipient of the SRF loan and grant.

**I. COMMISSIONING CONTRACT AWARD -- WATER QUALITY LABORATORY (LAB)**

It is recommended that the Board:

1. Approve the commissioning contract award to Heery International, Inc. for the Lab, Project No. EN15008, for the not-to-exceed amount of \$59,884; and
2. Authorize the General Manager to execute the contract.

**J. MEMORANDUM OF UNDERSTANDING (MOU) WITH LOCAL GOVERNMENT COMMISSION (LGC) FOR A SPONSORED CIVICSPARK FELLOW**

It is recommended that the Board:

1. Approve an MOU for Sponsored CivicSpark Fellow with LGC; and
2. Authorize the General Manager to execute said MOU.

**K. EAST DECLEZ PURCHASE AND SALE AGREEMENT**

It is recommended that the Board:

1. Approve the Purchase and Sale Agreement with SLPR, LLC for the East Declez property; and
2. Authorize the General Manager to execute the agreement.

**L. TERM SHEET FOR RECYCLED WATER (RW) INTERCONNECTION WITH JURUPA COMMUNITY SERVICES DISTRICT (JCSD)**

It is recommended that the Board:

1. Approve the Term Sheet between Inland Empire Utilities Agency (IEUA) and JCSD for the development of a RW Interconnection; and
2. Authorize the General Manager to make non-substantive changes and execute the final Term Sheet.

**M. CONTRACT AWARD FOR THE RP-1 MIXED LIQUOR RETURN PUMPS**

It is recommended that the Board:

1. Approve the consulting engineering services contract award for the design efforts for the RP-1 Mixed Liquor Return Pumps, Project No. EN16024, to the most qualified consultant, for the not-to-exceed amount of \$424,198; and
2. Authorize the General Manager to execute the contract.

2. **ACTION ITEMS**

A. **ADOPTION OF RESOLUTIONS NOS. 2015-11-6 AND 7 FOR THE REGIONAL PLANT NOS. 1 AND 5 PRELIMINARY DESIGN REPORT PROJECT**

It is recommended that the Board:

1. Adopt Resolution No. 2015-11-6, authorizing the General Manager to sign and file the application and agreement with the State Water Resources Control Board (SWRCB) for funding of the Regional Plant No. 1 (RP-1) and Regional Plant No. 5 (RP-5) Expansion Preliminary Design Report Project (Project); and
2. Adopt Resolution No. 2015-11-7, dedicating net revenues for the repayment of State Revolving Fund (SRF) loan from the SWRCB for the Project.

3. **INFORMATION ITEMS**

A. **EL NINO PREPARATION (WRITTEN)**

B. **ENGINEERING AND CONSTRUCTION MANAGEMENT MONTHLY UPDATE (POWERPOINT)**

C. **MWD AND DROUGHT UPDATE (ORAL)**

**RECEIVE AND FILE INFORMATION ITEMS**

D. **TREASURER'S REPORT OF FINANCIAL AFFAIRS (WRITTEN/ POWERPOINT)**

E. **PUBLIC OUTREACH AND COMMUNICATION (WRITTEN)**

F. **LEGISLATIVE REPORT FROM INNOVATIVE FEDERAL STRATEGIES (WRITTEN)**

G. **LEGISLATIVE REPORT FROM AGRICULTURAL RESOURCES (WRITTEN)**

H. **LEGISLATIVE REPORT FROM WEST COAST ADVISORS (WRITTEN)**

I. **CALIFORNIA STRATEGIES, LLC MONTHLY ACTIVITY REPORT (WRITTEN)**

J. **STATE LEGISLATION MATRIX (WRITTEN)**

K. **FEDERAL LEGISLATION MATRIX (WRITTEN)**

L. **WATER CONNECTION FEE UPDATES (WRITTEN)**

M. **RECYCLED WATER ANNUAL REPORT (WRITTEN)**

- N. 1ST QUARTER PLANNING AND ENVIRONMENTAL COMPLIANCE UPDATE (WRITTEN)
- O. FY 2014/15 IEUA ANNUAL WATER-USE EFFICIENCY PROGRAMS REPORT

Materials related to an item on this agenda submitted to the Agency, after distribution of the agenda packet, are available for public inspection at the Agency's office located at 6075 Kimball Avenue, Chino, California during normal business hours.

- 4. AGENCY REPRESENTATIVES' REPORTS
  - A. SAWPA REPORT (WRITTEN)
  - B. MWD REPORT (WRITTEN)
  - C. REGIONAL SEWERAGE PROGRAM POLICY COMMITTEE REPORT
  - D. CHINO BASIN WATERMASTER REPORT (WRITTEN)
- 5. GENERAL MANAGER'S REPORT
- 6. BOARD OF DIRECTORS' REQUESTED FUTURE AGENDA ITEMS
- 7. DIRECTORS' COMMENTS
- 8. CONFERENCE REPORTS

This is the time and place for the Members of the Board to report on prescheduled Committee/District Representative Assignment meetings, which were held since the last regular Board meeting, and/or any other items of interest.

- 9. CLOSED SESSION
  - A. PURSUANT TO GOVERNMENT CODE SECTION 54956.9(a) – CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION
    - 1. Chino Basin Municipal Water District vs. City of Chino, Case No. RCV51010
    - 2. Martin vs. IEUA, Case No. CIVRS 1000767
    - 3. Mwembu vs. IEUA, Case No. CIVDS 1415762
  - B. PURSUANT TO GOVERNMENT CODE SECTION 54956.8 – CONFERENCE WITH REAL PROPERTY NEGOTIATOR
    - 1. Supplemental Water Transfer/Purchase  
Negotiating Party: General Manager P. Joseph Grindstaff  
Under Negotiation: Price and Terms of Purchase

**C. PURSUANT TO GOVERNMENT CODE SECTION 54956.9  
CONFERENCE WITH LEGAL COUNSEL - ANTICIPATED LITIGATION**

1. One (1) Case

**D. PURSUANT TO GOVERNMENT CODE SECTION 54957 – PERSONNEL  
MATTERS**

1. Various Positions – Compensation Study
2. Various Positions.

**10. ADJOURN**

\*A Municipal Water District

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Board Secretary/Office Manager (909) 993-1736, 48 hours prior to the scheduled meeting so that the Agency can make reasonable arrangements.

Proofed by: SK

**Declaration of Posting**

I, April Woodruff, Board Secretary of the Inland Empire Utilities Agency\*, A Municipal Water District, hereby certify that a copy of this agenda has been posted by 5:30 p.m. at the Agency's main office, 6075 Kimball Avenue, Building A, Chino, CA on Thursday, November 12, 2015.

  
\_\_\_\_\_  
April Woodruff

**ACTION  
ITEM**

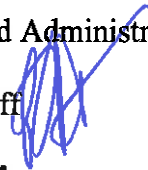
**2A**





Date: November 18, 2015

To: The Honorable Board of Directors

Through: Finance, Legal, and Administration Committee (11/11/15)

From: P. Joseph Grindstaff  
General Manager 

Submitted by: Chris Berch   
Executive Manager of Engineering/Assistant General Manager

Jason Gu   
Grants Officer

Subject: Adoption of Resolution Nos. 2015-11-6 and 7 for the Regional Plant Nos. 1 and 5 Preliminary Design Report (PDR) Project

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### **RECOMMENDATION**

It is recommended that the Board of Directors:

1. Adopt Resolution No. 2015-11-6, authorizing the General Manager to sign and file the application and agreement with the State Water Resources Control Board (SWRCB) for funding of the Regional Plant No. 1 (RP-1) and Regional Plant No. 5 (RP-5) Expansion PDR Project (Project); and,
2. Adopt Resolution No. 2015-11-7, dedicating net revenues for the repayment of State Revolving Fund (SRF) loan from the SWRCB for the Project.

### **BACKGROUND**

The project will create the PDR for the RP-1 Liquids Treatment Expansion, RP-1 Solids Treatment Expansion, RP-5 Liquids Treatment Expansion, and the RP-5 Solids Treatment Facility. The PDR will consist of three separate volumes, which include: RP-1 Liquids & Solids Treatment Expansion, RP-5 Liquids Treatment Expansion, and RP-5 Solids Treatment Facility. The project will determine the necessary size of the required treatment capacity expansions at RP-1 and RP-5, provide the schedule for completion of design and construction at each facility, and provide the project costs (design, construction, internal labor, & contingency). The project is currently in the project development phase with the preliminary design scheduled to begin in

Adoption of Resolution Nos. 2015-11-6 and 7 for the Preliminary Design Report Project  
November 18, 2015  
Page 2 of 2

January 2016. The preliminary design is scheduled to be completed within 12 months with completion in January 2017.

The SWRCB administers a program for planning or design funding through the Clean Water State Revolving Fund (CWSRF) Program.

IEUA staff is requesting approval to file an application for CWSRF planning and design program funds for the Project. The application will include the preparation of the Preliminary Design Report for the RP-1 and RP-5 Expansion Project.

### **PRIOR BOARD ACTION**

None.

### **IMPACT ON BUDGET**

The RP-1 and RP-5 Expansion Preliminary Design Report Project currently has a total project budget of \$3,000,000 in IEUA's Ten-Year Capital Improvement Plan (TYCIP). The application would request \$3,000,000 CWSRF funding. Upon approval by SWRCB, the TYCIP and annual appropriations will be revised to align with the new SRF loan and total project budget.

#### Attachments:

Resolution No. 2015-11-6

Resolution No. 2015-11-7

**RESOLUTION NO. 2015-11-6**

**RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY\*, SAN BERNARDINO COUNTY, CALIFORNIA, AUTHORIZING THE GENERAL MANAGER TO EXECUTE THE FINANCIAL ASSISTANCE APPLICATIONS AND AGREEMENTS WITH THE STATE WATER RESOURCES CONTROL BOARD FOR THE REGIONAL PLANT NO. 1 AND REGIONAL PLANT NO. 5 EXPANSION PRELIMINARY DESIGN REPORT PROJECT**

**BE IT RESOLVED**, by the Board of Directors of the Inland Empire Utilities Agency (IEUA) that the General Manager or in his absence, his designees are hereby authorized and directed to sign and file, on behalf of the Inland Empire Utilities Agency (IEUA), a Financial Assistance Application for a financing agreements from the State Water Resources Control Board for the Regional Plant No. 1 and Regional Plant No. 5 Expansion Preliminary Design Report Project;

**BE IT RESOLVED**, that the IEUA hereby agrees and further does authorize the General Manager or in his absence, his designees to provide the assurances, certifications and commitments required for the financial assistance applications, including executing a financial assistance agreement from the State Water Resources Control Board and any amendments or changes thereto,

**BE IT FURTHER RESOLVED**, that the General Manager or in his absence his designees is authorized to represent the IEUA in carrying out the IEUA's responsibilities under the financing agreement, including certifying disbursement requests on behalf of the IEUA and compliance with applicable state and federal laws.

**ADOPTED** this 18th day of November, 2015.

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Terry Catlin, President of the Inland Empire Utilities Agency\* and of the Board of Directors thereof

ATTEST:

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Steven J. Elie, Secretary/Treasurer of the Inland Empire Utilities Agency\* and of the Board of Directors thereof



**RESOLUTION NO. 2015-11-7**

**RESOLUTION OF THE BOARD OF DIRECTORS OF THE INLAND EMPIRE UTILITIES AGENCY\* (IEUA), SAN BERNARDINO COUNTY, CALIFORNIA, DEDICATING CERTAIN REVENUES FOR THE REPAYMENT OF STATE REVOLVING FUND (SRF) FINANCING FROM THE STATE WATER RESOURCES CONTROL BOARD FOR THE REGIONAL PLANT NO. 1 AND REGIONAL PLANT NO. 5 EXPANSION PRELIMINARY DESIGN REPORT PROJECT**

**WHEREAS**, The State Water Resources Control Board (SWRCB) offers funding to assist local agencies with the design and construction of Wastewater Treatment and Recycled water distribution facilities;

**WHEREAS**, The Board of Directors of the Inland Empire Utilities Agency has authorized the General Manager or his designees to apply for and execute the State Revolving Fund (SRF) loan and grant contracts with the SWRCB;

**WHEREAS**, IEUA has applied for SRF loan from SWRCB for the Regional Plant No. 1 and Regional Plant No. 5 Expansion Preliminary Design Report Project; and

**WHEREAS**, the SWRCB's SRF loan program requires each recipient to establish one or more dedicated sources of revenue for repayment of the SRF loan.

**NOW THEREFORE, BE IT RESOLVED**, by the Board of Directors, that IEUA hereby dedicates and pledges net revenues from enterprise funds to payment of any and all Clean Water State Revolving Fund and/or Water Recycling Funding Program financing for the Regional Plant No. 1 and Regional Plant No. 5 Expansion Preliminary Design Report Project; CWSRF Project No. (the State will provide). The IEUA commits to collecting such revenues and maintaining such funds(s) throughout the term of such financing and until the IEUA has satisfied its repayment obligation thereunder unless modification or change is approved in writing by the State Water Resources Control Board. So long as the financing agreements are outstanding, the IEUA's pledge hereunder shall constitute a lien in favor of the State Water Resources Control Board on the foregoing fund(s) and revenue(s) without any further action necessary. So long as the financing agreements are outstanding, the IEUA commits to maintaining the funds and revenues at levels sufficient to meet its obligations under the financing agreements.

**ADOPTED** this 18<sup>th</sup> day of November, 2015.

\_\_\_\_\_  
Terry Catlin, President of the Inland  
Empire Utilities Agency\* and of  
the Board of Directors thereof

ATTEST:

\_\_\_\_\_  
Steven J. Elie, Secretary/Treasurer of the  
Inland Empire Utilities Agency\* and of the  
Board of Directors thereof

STATE OF CALIFORNIA                    )  
  )SS  
COUNTY OF SAN BERNARDINO        )

I, Steven J. Elie, Secretary/Treasurer of the Inland Empire Utilities Agency\*, DO  
HEREBY CERTIFY that the foregoing Resolution No. 2015-11-7 was adopted at a regular  
meeting on November 18, 2015 of said Agency\* by the following vote:

AYES:

NOES:

ABSTAIN:

ABSENT:

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Steven J. Elie  
Secretary/Treasurer

(Seal)

\*A Municipal Water District

**INFORMATION  
ITEM**

**3A**

# El Nino Preparation

November 2015



*Inland Empire Utilities Agency*  
A MUNICIPAL WATER DISTRICT

Matthew Melendrez

Deputy Manager of Operations



# History

- \* In 1997, high flow was experienced at RP-1 with about 70 MGD peak flow
- \* Chino Creek has flooded and impacted RP-2
- \* No issues at other facilities



# Storm Preparation

- \* Establish Emergency Operations Center (EOC)
- \* Check storm water pumps
- \* Stage sand bags
- \* Routine housekeeping
  - Cleaning drains
  - Cleaning gutters
- \* Storm response may

include utilizing lagoons and by-pass options



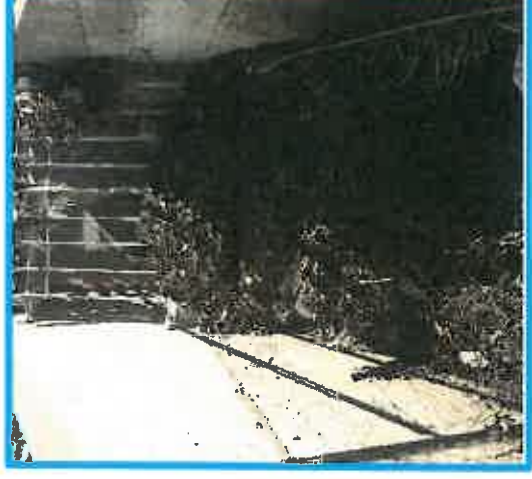
# GWR Storm Water Preparation

## \* Completed maintenance

- Weeding
- Flow control gate testing and maintenance
- Cleaning of inlet and outlet structures
- Flow control berm maintenance

## \* Basin infiltration restoration

- 7<sup>th</sup> and 8<sup>th</sup> Street
- Turner 1
- Brooks



# GWR Storm Water Preparation

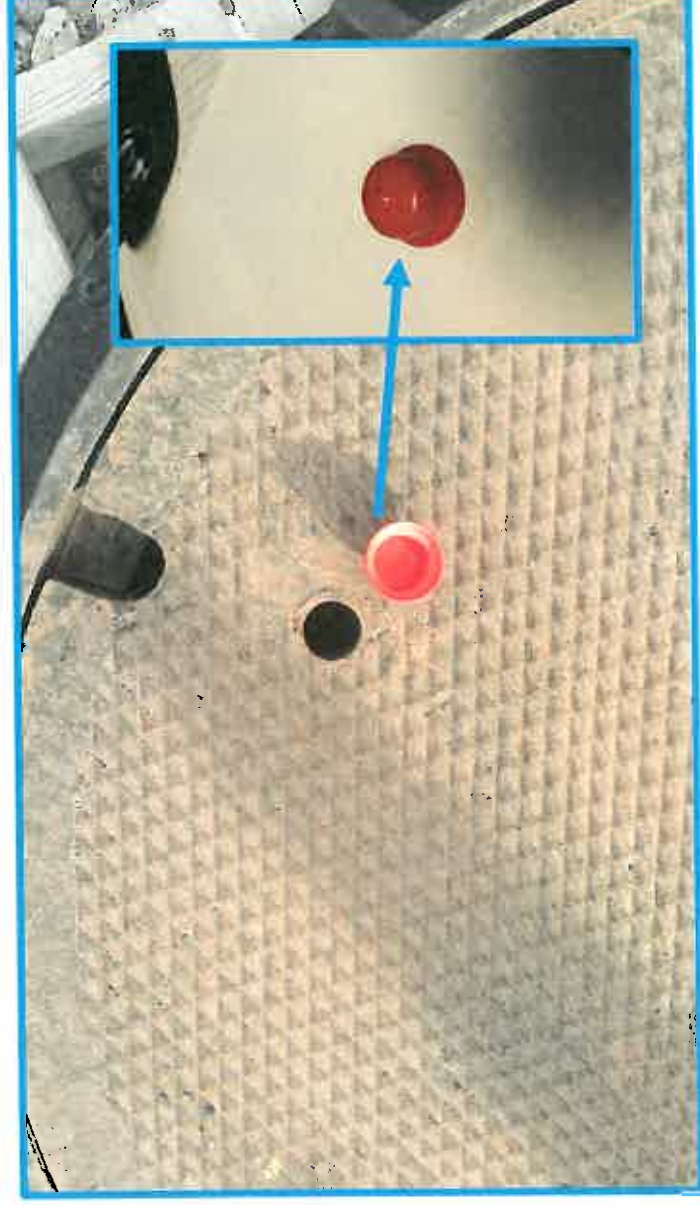
- \* Rubber dam inspection and maintenance completed
- \* Stakeholder communications (CBWCD, CBWM, SBCFCD)
  - El Niño agenda items at Groundwater Recharge Coordination Committee (GRCC) meetings
  - GRCC sub-committee established to update Operations Protocols





# Regional Sewer System

- \* Preparation
  - Plug manhole pickholes with rubber stoppers
  - Ensured readiness of vehicles



# Regional Sewer System

- \* Completed inventory and operational test of IEUA portable equipment
- \* Verified point of contacts for all Regional contracting agencies and Jurupa Community Services District
- \* Scheduling meeting with Mutual Aid partners to discuss:
  - Expectations and Assets available
  - Share best practices
  - Build rapport

**INFORMATION  
ITEM**

**3B**

# Engineering and Construction Management Project Updates

November 2015



**Inland Empire Utilities Agency**  
A MUNICIPAL WATER DISTRICT

**Shaun Stone, P.E.**  
Manager of Engineering

**John Scherck,**  
Acting Deputy Manager of Construction Management



# EN15008 - Water Quality Laboratory

- **Engineering Consultant:** The Ausin Company
- **Current Contract:** \$1.35 M
- **Total Project Budget:** \$21 M
- **Scope of Work:** Consulting engineering and construction administration services
- **Current Activities:**
  - Update 85% design
  - Third party 85% constructability review
  - Solar system investigations/evaluation
  - Control system coordination and interface
- **Focus Point:**
  - Site coordination/potholing (gas, power, water, control, etc.)
  - Security system connectivity (cameras, monitoring, alarms)
  - Construction cost estimate review/update
  - Pre-qualification of contractors – 4 packages received
  - Onsite fire flow test in coordination Chino Fire Department



Lab Rendering



# EN16049 – Conference Rooms Audio-Visual (AV) Upgrades

- Contractor: TBD
- Current Contract: N/A
- Total Project Budget: \$700 K
- Scope of Work:
  - Evaluate current and future AV needs
  - Develop functional specifications and cost estimates
  - Design and install 12 new AV systems
- Current Activities:
  - Development and approval of Project Charter
  - Request for Proposals for Functional Specification
  - Visited EVWD, MWD, WMWD, and Chino Council Chambers
- Focus Point:
  - Selection of Technical Consultant



Board Room



Anza Conference Room

# EN13016 – SCADA Enterprise System CCWRF

**Contractor:** Technical Systems, Inc.

- **Current Contract:** \$2.5 M
- **Total Project Budget:** \$10.3 M
- **Scope of Work:** Migration of existing control system to modern SCADA system at CCWRF
- **Current Activities:**
  - Successful factory acceptance tests
  - Finalization of testing plans
  - Installation of server and control room equipment
  - Migration of headworks remote input/output panel
  - High-performance operator screens
- **Contract Completion:** February 2016
- **Percent Complete:** 55%
- **Focus Point:**
  - First panel cutover/migration



Operator Overview Screen Development



Factory Acceptance Testing



# EN15045 & EN15046 – Collection/NRW System Manhole Upgrades

- Contractor: Genesis Construction
- Current Contract Value: \$595 K
- Total Project Budget: \$1 M
- Scope of Work: Replace frame & covers for existing manholes located in various public right-of-ways and private easements
- Current Activities:
  - Construction begins mid-November 2015
- Contract Completion: March 2016
- Focus Points:
  - Long lead item - 6 to 7 weeks for material delivery
  - Permit acquisition with member agencies



Pre-existing manhole & cover

# EN15032 – Agency-Wide HVAC Improvements, Package No. 3

- Engineering Consultant: Allison Mechanical, Inc.
- Current Contract: \$431 K
- Total Project Budget: \$1.2 M
- Scope of Work: New upgraded air conditioning units for RP-1 Warehouse, RP-2 Dewatering Control Building MCC/Control Room, RP-5 Power Center No. 3 and HQB Control Room
- Current Activities:
  - Reviewing project control schedule sequence of activities
  - Commence field activities at RP-2 Dewatering Control Building – MCC/Control Room
- Contract Completion: May 2016
- Percent Complete: 5%
- Focus Point:
  - Contractor planning, coordination with Agency staff
  - Contractor long lead equipment fabrication



RP-5 Power Center No. 3

# EN12020 – Chino Creek Invert Repair

- Contractor: Mike Bubalo Construction
- Current Contract: \$156 K
- Total Project Budget: \$477 K
- Scope of Work: Construction of new reinforced concrete slab, clearing nuisance vegetation
- Current Activities:
  - Temporary repairs of uplifted slab areas completed
  - Memo to USACE requesting determination on temporary and permanent repairs
- Focus Point:
  - USACE response to IEUA memo
  - Cost evaluation for permanent repairs
  - Schedule for permanent repairs



Flow Diversion Set-up



Rain Event, September 9, 2015



# Reporting of Success

## ▪ EN11035 Philadelphia Pump Station Upgrades

Scope of Work: Force main and wet well repairs, adding redundant PLC's, ferric chloride dosing

- Savings for ferric chloride dosing is estimated at \$60 K to \$70 K/per year
- The ferric chloride dosing was automated and incorporated into the SCADA/control system

## ▪ EN13054 Montclair Lift Station Upgrades

Scope of Work: Complete remodel of existing system including new pumps, redundant PLC's, MCC, VFD's, including new piping and electrical system

- Prior to the remodel, de-ragging was performed manually twice a week by Operations and Maintenance
- After eight months of continuous operation, manual de-ragging has not been required
- Estimated labor savings is \$84 K/per year



Montclair Lift Station Pumps



**INFORMATION  
ITEM**

**3D**




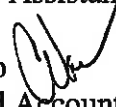
Date: November 18, 2015

To: The Honorable Board of Directors

Through: Finance, Legal, and Administration Committee (11/11/15)

From: P. Joseph Grindstaff  
General Manager

Submitted by:  Christina Valencia  
Chief Financial Officer/ Assistant General Manager

 Javier Chagoyen-Lazaro  
Manager of Finance and Accounting

Subject: Treasurer's Report of Financial Affairs

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### **RECOMMENDATION**

The Treasurer's Report of Financial Affairs for the month ended September 30, 2015, is an informational item for the Board of Director's review.

### **BACKGROUND**

The Treasurer's Report of Financial Affairs for the month ended September 30, 2015, is submitted in a format consistent with State requirements. The monthly report denotes investment transactions that have been executed in accordance with the criteria stated in the Agency's Investment Policy (Resolution No. 2015-6-3).

Total cash, investments, and restricted deposits of \$135,085,455, reflects a decrease of \$1,914,843 compared to the total reported for August 2015. The decrease was primarily due to the payment of pass-through operating costs for the Non-Reclaimable Wastewater North system to County Sanitation District of Los Angeles County and the closeout of construction related escrow accounts. The average days of cash on hand through September 30, 2015 increased from 170 to 173 as a result of lower operating expenses. The average days of cash on hand is calculated using the monthly ending balance of unrestricted cash and cash equivalents divided by disbursements for operating expenses, debt service, and capital expenditures. New connection fees collected and held by member agencies are excluded from the calculation.

The Agency's investment portfolio average rate of return in September 2015 was 0.620%, a very slight decrease of 0.003% compared to the average yield of 0.623% reported in August 2015. Staff is actively looking at alternatives to improve the overall investment portfolio yield while maintaining enough liquidity to support the operating activities and ensure preservation of capital.

The Financial Affairs report is consistent with the Agency's Business Goal of Fiscal Responsibility in providing financial reporting that accounts for cash and investment activities to fund operating requirements and to optimize investment earnings.

**PRIOR BOARD ACTION**

None

**IMPACT ON BUDGET**

The interest earned on the Agency's investment portfolio increases the Agency's reserves.

Attachment: September 2015 Treasurer's Report of Financial Affairs

# TREASURER'S REPORT OF FINANCIAL AFFAIRS

For the Month Ended September 30, 2015



All investment transactions have been executed in accordance with the criteria stated in the Agency's Investment Policy (Resolution No. 2015-6-3) adopted by the Inland Empire Utilities Agency's Board of Directors during its regular meeting held on June 17, 2015.

The funds anticipated to be available during the next six-month period are expected to be sufficient to meet all foreseen expenditures during the period.

\* A Municipal Water District

**INLAND EMPIRE UTILITIES AGENCY**

**Cash and Investment Summary**

Month Ended  
September 30, 2015

	<b>September</b>	<b>August</b>
<b><u>Cash, Bank Deposits, and Bank Investment Accounts</u></b>	<b>\$2,389,109</b>	<b>\$1,614,770</b>
<b><u>Investments</u></b>		
CBB Repurchase (Sweep)	\$26,497,571	\$23,619,181
Local Agency Investment Fund (LAIF)	24,853,241	24,853,241
CalTrust	3,543,874	3,542,350
Certificates of Deposit	3,138,000	7,310,210
Municipal Bonds	1,002,216	1,004,294
Medium Term Notes	4,102,067	3,001,050
U.S. Treasury Notes	999,782	999,768
U.S. Government Sponsored Entities	15,000,750	17,000,685
<b>Total Investments</b>	<b>\$79,137,501</b>	<b>\$81,330,779</b>
<b>Total Cash and Investments Available to the Agency</b>	<b>\$81,526,610</b>	<b>\$82,945,549</b>
<b><u>Restricted Deposits</u></b>		
Debt Service Accounts	\$2,544,728	\$2,544,723
CCRA Deposits Held by Member Agencies	44,222,424	43,230,726
OPEB (CERBT) Account	6,791,693	6,854,133
Escrow Deposits	-	1,425,167
<b>Total Restricted Deposits</b>	<b>\$53,558,845</b>	<b>\$54,054,749</b>
<b>Total Cash, Investments, and Restricted Deposits</b>	<b>\$135,085,455</b>	<b>\$137,000,298</b>

**INLAND EMPIRE UTILITIES AGENCY**  
**Cash and Investment Summary**

Month Ended  
September 30, 2015

**Cash, Bank Deposits, and Bank Investment Accounts**

Citizens Business Bank Demand Account (Offset by CBB Sweep Balance)	(\$44,882)
Citizens Business Bank Workers' Compensation Account	62,209
Bank of America Payroll Account	979,584
Bank of America Payroll Taxes Account	52,347
Subtotal Demand Deposits	<b>\$1,049,258</b>

**Other Cash and Bank Accounts**

Petty Cash	\$2,250
Subtotal Other Cash	\$2,250

**Bank of the West Money Market Account**

\$1,051,597

**US Bank Pre-Investment Money Market Account**

\$286,004

**Total Cash and Bank Accounts**

**\$2,389,109**

**Investments**

**CBB Repurchase (Sweep) Investments**

Federal Home Loan	\$26,497,571
Subtotal CBB Repurchase (Sweep)	\$26,497,571

**Local Agency Investment Fund (LAIF)**

LAIF Non-Restricted Fund	\$18,935,186
LAIF Insurance Sinking Fund	5,918,055
Subtotal Local Agency Investment Fund	\$24,853,241

**CalTrust**

Short Term	\$3,543,874
Subtotal CalTrust	\$3,543,874

**INLAND EMPIRE UTILITIES AGENCY**  
**Cash and Investment Summary**

*Month Ended*  
 September 30, 2015

<b>Certificates of Deposit</b>	
Citizens Business Bank	\$0
Brokered Certificates of Deposit	<u>3,138,000</u>
Subtotal Certificates of Deposit	<u>\$3,138,000</u>
<b><u>Investments Continued</u></b>	
<b>Municipal Bonds</b>	
State and Local Municipal Bonds	<u>\$1,002,216</u>
Subtotal State Municipal Bonds	<u>\$1,002,216</u>
<b>Medium Term Notes</b>	
JP Morgan Securities	\$1,000,204
John Deere Capital Corp	1,001,690
New York Life Global	1,101,097
JP Morgan Chase & Co.	999,076
Subtotal Medium Term Notes	<u>\$4,102,067</u>
<b>U.S. Treasury Notes</b>	
Treasury Note	<u>\$999,782</u>
Subtotal U.S. Treasury Notes	<u>\$999,782</u>
<b>U.S. Government Sponsored Entities</b>	
Fannie Mae Bank	\$5,999,451
Freddie Mac Bank	3,001,298
Federal Farm Credit Bank	2,000,000
Federal Home Loan Bank	4,000,000
Subtotal U.S. Government Sponsored Entities	<u>\$15,000,750</u>
<b><i>Total Investments</i></b>	<u><b>\$79,137,501</b></u>

**INLAND EMPIRE UTILITIES AGENCY**  
**Cash and Investment Summary**

Month Ended  
September 30, 2015

**Restricted Deposits**

**Debt Service Reserves**

08B Debt Service Accounts	\$2,544,710
10A Debt Service Accounts	18
Subtotal Debt Service Reserves	<u>\$2,544,728</u>

**CCRA Deposits Held by Member Agencies**

City of Chino	\$11,953,018
Cucamonga Valley Water District	7,165,504
City of Fontana	7,368,739
City of Montclair	2,552,372
City of Ontario	8,498,827
City of Chino Hills	3,290,534
City of Upland	3,393,430
Subtotal CCRA Deposits Held by Member Agencies	<u>\$44,222,424</u>

**CaIPERS**

OPEB (CERBT) Account	<u>\$6,791,693</u>
Subtotal CaIPERS Accounts	<u>\$6,791,693</u>

***Total Restricted Deposits***

	<u>\$53,558,845</u>
<b><i>Total Cash, Investments, and Restricted Deposits as of September 30, 2015</i></b>	<b><u><u>\$135,085,455</u></u></b>

Total Cash, Investments, and Restricted Deposits as of 9/30/15  
Less: Total Cash, Investments, and Restricted Deposits as of 8/31/15

***Total Monthly Increase (Decrease)***

	<u>\$135,085,455</u>
	<u>137,000,298</u>
	<u><u>(\$1,914,843)</u></u>

**INLAND EMPIRE UTILITIES AGENCY**  
**Cash and Investment Summary**

Month Ended  
September 30, 2015

	Credit Rating @ Purchase		CHANGES IN Credit Rating		Par Amount	Cost Basis Amount	Term (Days)	September Amortization	September Value	% Coupon	% Yield to Maturity	Maturity Date	Market Value
	S&P	Moody's	S&P	Moody's									
<b>Cash, Bank Deposits, and Bank Investment Accounts</b>													
<b>Citizens Business Bank</b>													
Demand Account*					(\$44,882)	(\$44,882)	N/A	N/A	(\$44,882)		0.30%	N/A	(\$44,882)
Subtotal CBB					(\$44,882)	(\$44,882)			(\$44,882)		0.30%		(\$44,882)
<b>Workers' Compensation Account</b>					\$62,209	\$62,209	N/A	N/A	\$62,209		N/A	N/A	\$62,209
Subtotal CBB					\$62,209	\$62,209			\$62,209		N/A	N/A	\$62,209
<b>Bank of America</b>													
Payroll Checking					\$979,584	\$979,584	N/A	N/A	\$979,584		N/A	N/A	\$979,584
Payroll Tax Checking					52,347	52,347	N/A	N/A	52,347		N/A	N/A	52,347
Subtotal B of A					\$1,031,931	\$1,031,931			\$1,031,931		N/A	N/A	\$1,031,931
<b>Bank of the West</b>													
Money Market Plus - Business Account					\$1,051,597	\$1,051,597	N/A	N/A	\$1,051,597		0.18%	N/A	\$1,051,597
Subtotal Bank of the West Money Market					\$1,051,597	\$1,051,597			\$1,051,597		0.18%	N/A	\$1,051,597
<b>US Bank</b>													
Federated Automated MMA					\$286,004	\$286,004	N/A	N/A	\$286,004		0.01%	N/A	\$286,004
Subtotal USB Money Market					\$286,004	\$286,004			\$286,004		0.01%	N/A	\$286,004
<b>Petty Cash</b>					\$2,250	\$2,250	N/A	N/A	\$2,250		N/A	N/A	\$2,250
<b>Total Cash, Bank Deposits and Bank Investment Accounts</b>					<b>\$2,389,109</b>	<b>\$2,389,109</b>			<b>\$2,389,109</b>				<b>\$2,389,109</b>
<i>*Negative demand checking balance is offset by the Daily Repurchase (Sweep) Account balance</i>													
<b>Investments</b>													
<b>CBB Daily Repurchase (Sweep) Accounts</b>													
Federal Home Loan					\$26,497,571	\$26,497,571	N/A	N/A	\$26,497,571		0.30%	N/A	\$26,497,571
Subtotal CBB Repurchase Accounts					\$26,497,571	\$26,497,571			\$26,497,571		0.30%	N/A	\$26,497,571



**INLAND EMPIRE UTILITIES AGENCY**  
**Cash and Investment Summary**

Month Ended  
 September 30, 2015

	Credit Rating @ Purchase		CHANGES IN Credit Rating		Par Amount	Cost Basis Amount	Term (Days)	September Amortization	September Value	% Coupon	% Yield to Maturity	Maturity Date	Market Value
	S&P	Moody's	S&P	Moody's									
<b>LAIF Accounts</b>													
Non-Restricted Funds					\$18,935,186	\$18,935,186	N/A	N/A	\$18,935,186		0.320%	N/A	\$18,935,186
LAIF Sinking Fund					5,918,055	5,918,055	N/A	N/A	5,918,055		0.320%	N/A	5,918,055
Subtotal LAIF Accounts					\$24,853,241	\$24,853,241			\$24,853,241		0.320%		\$24,853,241
<b>CALTRUST Accounts</b>													
Short-Term					\$3,543,874	\$3,543,874	N/A	N/A	\$3,543,874		0.52%	N/A	\$3,543,874
Subtotal CalTrust Accounts					\$3,543,874	\$3,543,874			\$3,543,874		0.52%		\$3,543,874
<b>Investments (continued)</b>													
<b>Brokered Certificates of Deposit</b>													
Ally Bank	N/A				\$245,000	\$245,000	541		\$245,000	0.80%	0.80%	01/17/17	\$244,873
Capital One National Association	N/A				240,000	240,000	542		240,000	0.80%	0.80%	01/17/17	239,875
Compass Bank	N/A				245,000	245,000	542		245,000	0.85%	0.85%	01/17/17	244,873
Comenity Capital Bank	N/A				240,000	240,000	720		240,000	1.15%	1.15%	07/13/17	239,702
Discover Bank	N/A				240,000	240,000	722		240,000	1.15%	1.15%	07/17/17	239,628
Medallion Bank	N/A				240,000	240,000	722		240,000	1.20%	1.20%	07/17/17	239,628
Capital One Bank	N/A				240,000	240,000	901		240,000	1.35%	1.35%	01/16/18	239,683
Goldman Sachs Bank USA	N/A				240,000	240,000	901		240,000	1.40%	1.40%	01/16/18	240,276
BMW Bank of North America	N/A				240,000	240,000	900		240,000	1.40%	1.40%	01/17/18	240,269
American Express Bank	N/A				240,000	240,000	1081		240,000	1.70%	1.70%	07/16/18	239,309
American Express Centurion	N/A				240,000	240,000	1081		240,000	1.70%	1.70%	07/16/18	239,309
HSBC Bank USA, NA Step	N/A				244,000	244,000	1808		244,000	1.25%	2.32%	07/29/20	242,987
JPM Chase NA Step	N/A				244,000	244,000	1810		244,000	1.25%	2.51%	07/31/20	243,065
Subtotal Brokered CDs					\$3,138,000	\$3,138,000		\$0	\$3,138,000		1.410%		\$3,133,477
<b>US Treasury Note</b>													
US Treasury Note	N/A	AAA			\$1,000,000	\$999,463		15	\$999,782	0.63%	0.64%	12/15/16	\$1,002,110
Subtotal Treasuries					\$1,000,000	\$999,463		\$15	\$999,782		0.64%		\$1,002,110

**INLAND EMPIRE UTILITIES AGENCY**  
**Cash and Investment Summary**

Month Ended  
September 30, 2015

	Credit Rating @ Purchase		CHANGES IN Credit Rating		Par Amount	Cost Basis Amount	Term (Days)	September Amortization	September Value	% Coupon	% Yield to Maturity	Maturity Date	Market Value
	S&P	Moody's	S&P	Moody's									
<b>U.S. Government Sponsored Entities</b> (As of August 2011, all US GSE's have been downgraded to AA+ Rating by S&P)													
Federal Home Loan Bank	AA+	AAA			\$2,000,000	\$2,000,000	355		\$2,000,000	0.38%	0.38%	06/20/16	\$1,999,380
Freddie Mac Bond	AA+	AAA			2,000,000	2,001,500	722	(62)	2,001,298	0.85%	0.81%	06/16/17	2,006,200
Federal Home Loan Bank	AA+	AAA			2,000,000	2,000,000	1,100		2,000,000	1.20%	1.20%	06/29/18	2,004,520
Fannie Mae Bond	N/A	AAA			2,000,000	2,000,000	1,459		2,000,000	1.63%	1.63%	12/28/18	2,016,040
Fannie Mae Bond	AA+	AAA			4,000,000	3,999,400	1,456	12	3,999,451	1.50%	1.50%	05/24/19	4,015,000
Federal Farm	AA+	AAA			2,000,000	2,000,000	1,460		2,000,000	1.52%	1.52%	06/24/19	2,022,840
Freddie Mac Bond	AA+	AAA			1,000,000	1,000,000	1,440		1,000,000	1.00%	3.00%	07/29/19	1,002,130
<b>Subtotal U.S. Gov't Sponsored Entities</b>					<b>\$15,000,000</b>	<b>\$15,000,900</b>		<b>(\$50)</b>	<b>\$15,000,750</b>		<b>1.338%</b>		<b>\$15,066,110</b>
<b>Municipal Bonds</b>													
California State General Obligation Bond	A-	A1	A+	AA3	\$1,000,000	\$1,089,000	1,285	(\$2,078)	\$1,002,216	3.95%	1.35%	11/01/15	\$1,003,020
<b>Subtotal State and Local Municipal Bonds</b>					<b>\$1,000,000</b>	<b>\$1,089,000</b>		<b>(\$2,078)</b>	<b>\$1,002,216</b>		<b>1.35%</b>		<b>\$1,003,020</b>
<b>Medium Term Notes</b>													
JP Morgan Securities	A	A2		A3	1,000,000	1,001,500	1,094	(41)	1,000,204	1.130%	1.07%	02/26/16	1,001,800
John Deere Capital Corp	A	A2			1,000,000	1,004,000	1,754	(68)	1,001,690	1.20%	1.11%	10/10/17	1,000,160
New York Life Global	AA+	AAA			1,100,000	1,101,100	763	(3)	1,101,097	1.30%	1.30%	10/30/17	1,100,055
JP Morgan Chase & Co	A	A3			1,000,000	999,000	1,022	29	999,076	1.63%	1.66%	05/15/18	993,810
<b>Subtotal Medium Term Notes</b>					<b>\$4,100,000</b>	<b>\$4,105,600</b>		<b>(\$84)</b>	<b>\$4,102,067</b>		<b>1.29%</b>		<b>\$4,095,825</b>
<b>Total Investments</b>					<b>\$79,132,686</b>	<b>\$79,227,649</b>			<b>\$79,137,501</b>				<b>\$79,195,228</b>

Source of Investment Market Value: US Bank

**INLAND EMPIRE UTILITIES AGENCY**  
**Cash and Investment Summary**

Month Ended  
September 30, 2015

	Credit Rating @ Purchase		CHANGES IN Credit Rating		Par Amount	Cost Basis Amount	Term (Days)	September Amortization	September Value	% Coupon	% Yield to Maturity	Maturity Date	Market Value	
	S&P	Moody's	S&P	Moody's										
<b>Restricted Deposits</b>														
<b>Debt Service and Arbitrage Accounts</b>														
<b>08B Debt Service Accounts</b>														
US Bank Debt Serv. Accounts					\$2,544,710	\$2,544,710	N/A	N/A	\$2,544,710		0.00%	N/A	\$2,544,710	\$2,544,710
Subtotal '08B Debt Service Accts					\$2,544,710	\$2,544,710			\$2,544,710		0.00%		\$2,544,710	\$2,544,710
<b>10A Debt Service Accounts</b>														
US Bank Debt Serv. Accounts					\$18	\$18	N/A	N/A	\$18		0.00%	N/A	\$18	\$18
Subtotal '10A Debt Service Accts					\$18	\$18			\$18		0.00%		\$18	\$18
<b>Total Debt Service Accounts</b>														
					\$2,544,728	\$2,544,728			\$2,544,728				\$2,544,728	\$2,544,728
<b>CCRA Deposits Held by Member Agencies</b>														
City of Chino					\$11,953,018	\$11,953,018	N/A	N/A	\$11,953,018		N/A	N/A	\$11,953,018	\$11,953,018
Cucamonga Valley Water District					7,165,504	7,165,504	N/A	N/A	7,165,504		N/A	N/A	7,165,504	7,165,504
City of Fontana					7,368,739	7,368,739	N/A	N/A	7,368,739		N/A	N/A	7,368,739	7,368,739
City of Montclair					2,552,372	2,552,372	N/A	N/A	2,552,372		N/A	N/A	2,552,372	2,552,372
City of Ontario					8,498,827	8,498,827	N/A	N/A	8,498,827		N/A	N/A	8,498,827	8,498,827
City of Chino Hills					3,290,534	3,290,534	N/A	N/A	3,290,534		N/A	N/A	3,290,534	3,290,534
City of Upland					3,393,430	3,393,430	N/A	N/A	3,393,430		N/A	N/A	3,393,430	3,393,430
Subtotal CCRA Deposits Held by Member Agencies					\$44,222,424	\$44,222,424			\$44,222,424				\$44,222,424	\$44,222,424
(Totals as reported through May 31, 2015)														
<b>CalPERS Deposits</b>														
OPEB (CERBT) Account					\$7,000,000	\$7,000,000	N/A	N/A	\$6,791,693		N/A	N/A	\$6,791,693	\$6,791,693
Subtotal CalPERS Deposits					\$7,000,000	\$7,000,000			\$6,791,693				\$6,791,693	\$6,791,693
<b>Escrow Deposits</b>														
Forestar/IBUA Holding Escrow (RP-1 Outfall)					\$0	\$0	N/A	N/A	\$0		N/A	N/A	\$0	\$0
GSE Construction					0	0	N/A	N/A	0		N/A	N/A	0	0
Subtotal Escrow Deposits					\$0	\$0			\$0				\$0	\$0
<b>Total Restricted Deposits</b>														
					\$53,767,152	\$53,767,152			\$53,558,845				\$53,558,845	\$53,558,845
<b>Total Cash, Investments, and Restricted Deposits as of September 30, 2015</b>														
					\$135,288,947	\$135,383,910			\$135,085,455				\$135,143,182	\$135,143,182

**INLAND EMPIRE UTILITIES AGENCY**  
**Cash and Investment Summary**

*Month Ended*  
 September 30, 2015

<b>September Purchases</b>			Par Amount	Investment	Investment
No.	Date	Transaction	Purchased	Security	Yield
1	10/30/17	Purchase	\$ 1,100,000	New York Life Global	1.300%
<b>Total Purchases</b>			<b>\$ 1,100,000</b>		

<b>September Investment Maturities, Calls &amp; Sales</b>			Par Amount	Investment	Investment
No.	Date	Transaction	Matured/Sold	Security	Yield to Maturity
1	09/18/15	Full Call	\$ 1,000,000	Freddie Mac Bond	0.750%
2	09/21/15	Full Call	\$ 1,000,000	Fannie Mae Bond	1.180%
<b>Total Maturities, Calls &amp; Sales</b>			<b>\$ 2,000,000</b>		

**INLAND EMPIRE UTILITIES AGENCY**  
**Cash and Investment Summary**

Month Ended  
September 30, 2015

<u>Directed Investment Category</u>	<u>Amount Invested</u>	<u>Yield</u>
CBB Repurchase (Sweep)	\$26,497,571	0.300%
Local Agency Investment Fund	24,853,241	0.320%
CalTrust	3,543,874	0.520%
Medium Term Notes	4,102,067	1.287%
Municipal Bonds	1,002,216	1.350%
US Treasury Notes	999,782	0.640%
U.S. Government Sponsored Entities	15,000,750	1.338%
	<b>\$75,999,501</b>	<b>0.593%</b>
<b>Bank Deposit and Investment Accounts</b>		
Citizens Business Bank - Demand Account	(\$44,882)	0.300%
Various Banks - Brokered Certificates of Deposit	3,138,000	1.410%
Bank of the West Money Market Account	1,051,597	0.180%
	<b>\$4,144,715</b>	<b>1.110%</b>

**Total Portfolio**  
**Investment Portfolio Rate of Return**  
**\$80,144,216**  
**0.620%**

<u>Restricted/Transitory/Other Demand Accounts</u>	<u>Amount Invested</u>	<u>Yield</u>
US Bank - 2008B Debt Service Accounts	\$2,544,710	0.000%
US Bank - 2010A Debt Service Accounts	18	0.000%
CCRA Deposits Held by Member Agencies	44,222,424	N/A
Citizens Business Bank - Workers' Compensation Account	62,209	N/A
US Bank - Pre-Investment Money Market Account	286,004	0.010%
CalPERS OPEB (CERBT) Account	6,791,693	N/A
Other Accounts*	1,034,181	N/A
	<b>\$54,941,239</b>	<b>0.001%</b>
<b>Total Other Accounts</b> <b>Average Yield of Other Accounts</b>		
	<b>\$135,085,455</b>	

\* Note: Bank of America Payroll Deposits used as compensating balances for bank services.

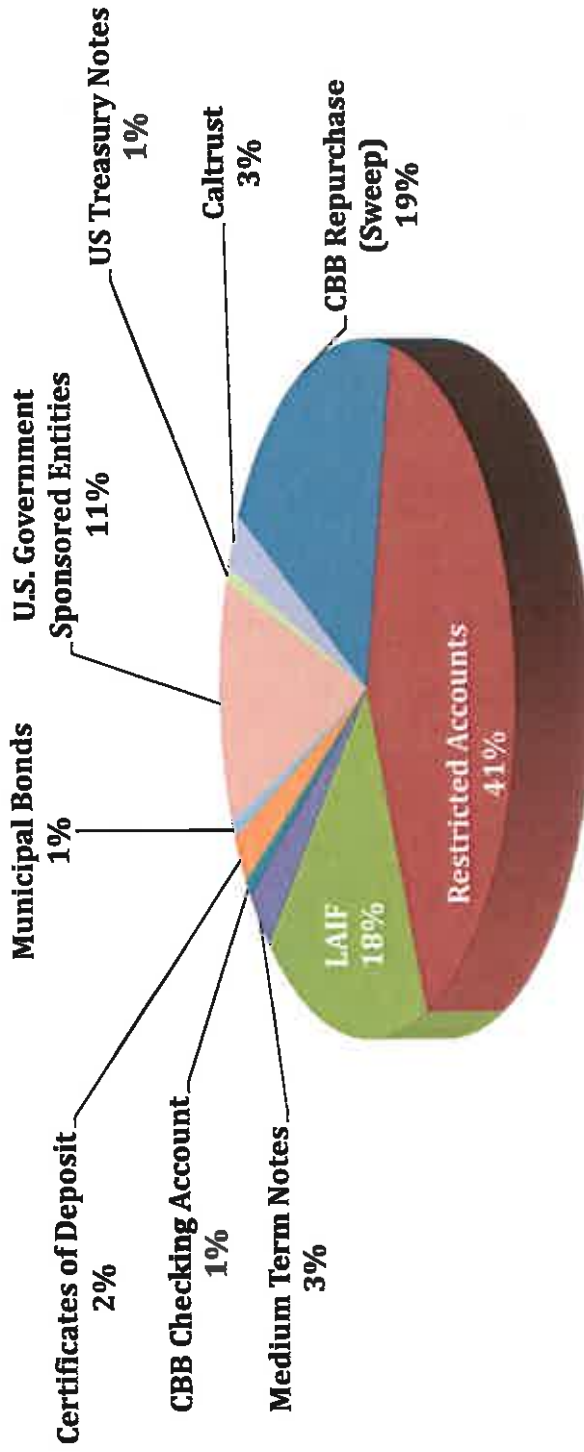
# ***Inland Empire Utilities Agency***

## **Treasurer's Report of Financial Affairs**

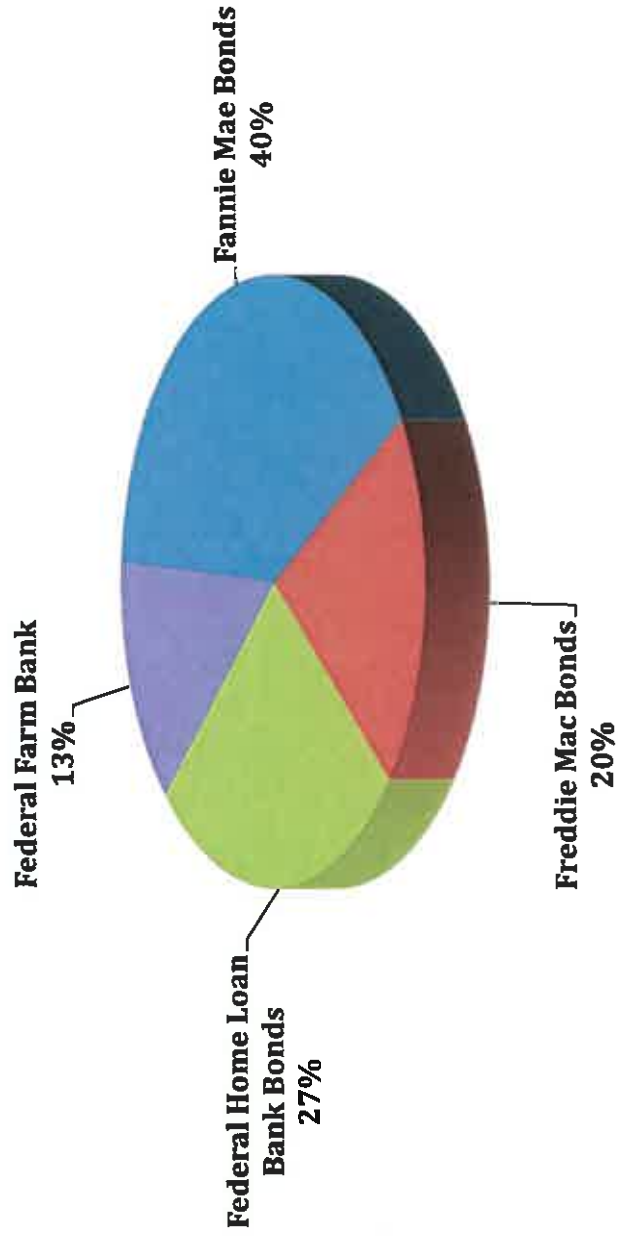
**For the Month Ended September 30, 2015**

**Combined Agency Portfolio (net of escrow deposits)**

**\$135,085,455**



***Inland Empire Utilities Agency***  
**Treasurer's Report of Financial Affairs**  
**For the Month Ended September 30, 2015**  
**U.S. Government Sponsored Entities Portfolio**  
**\$15,000,750**



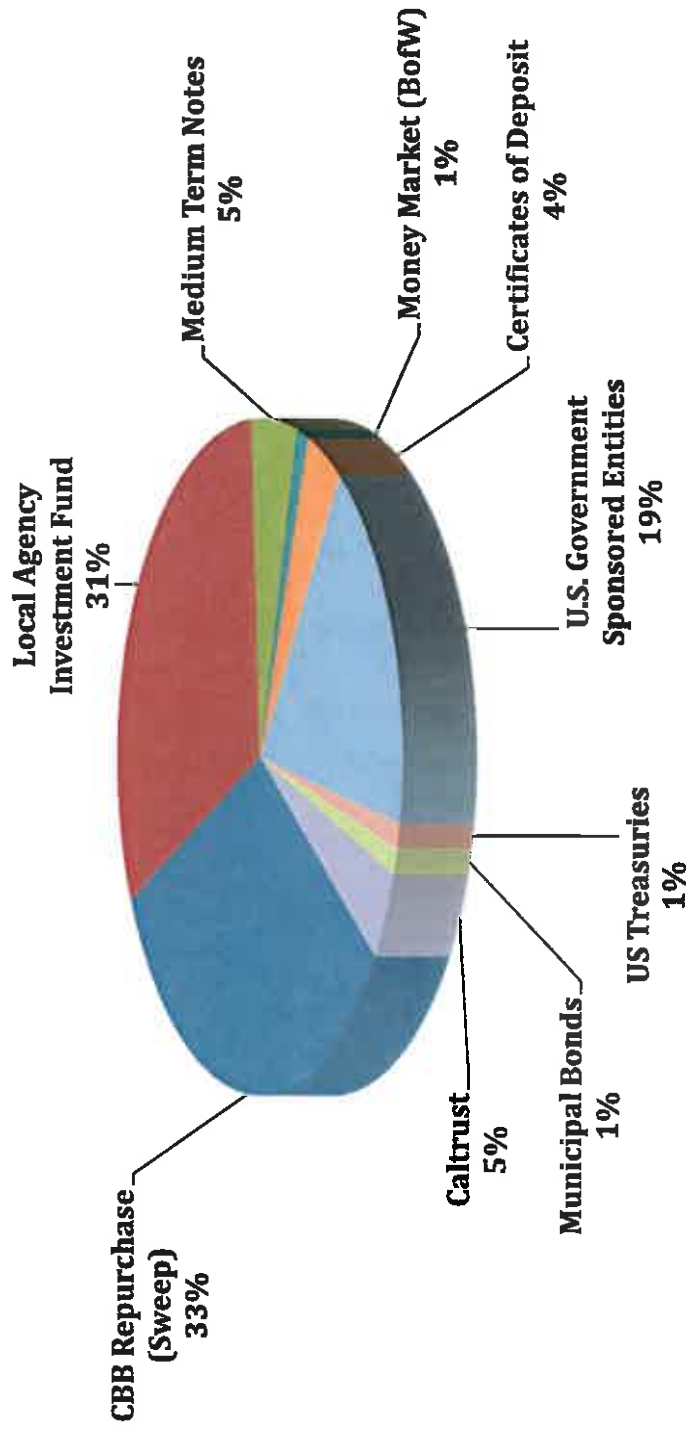
# Inland Empire Utilities Agency

## Treasurer's Report of Financial Affairs

For the Month Ended September 30, 2015

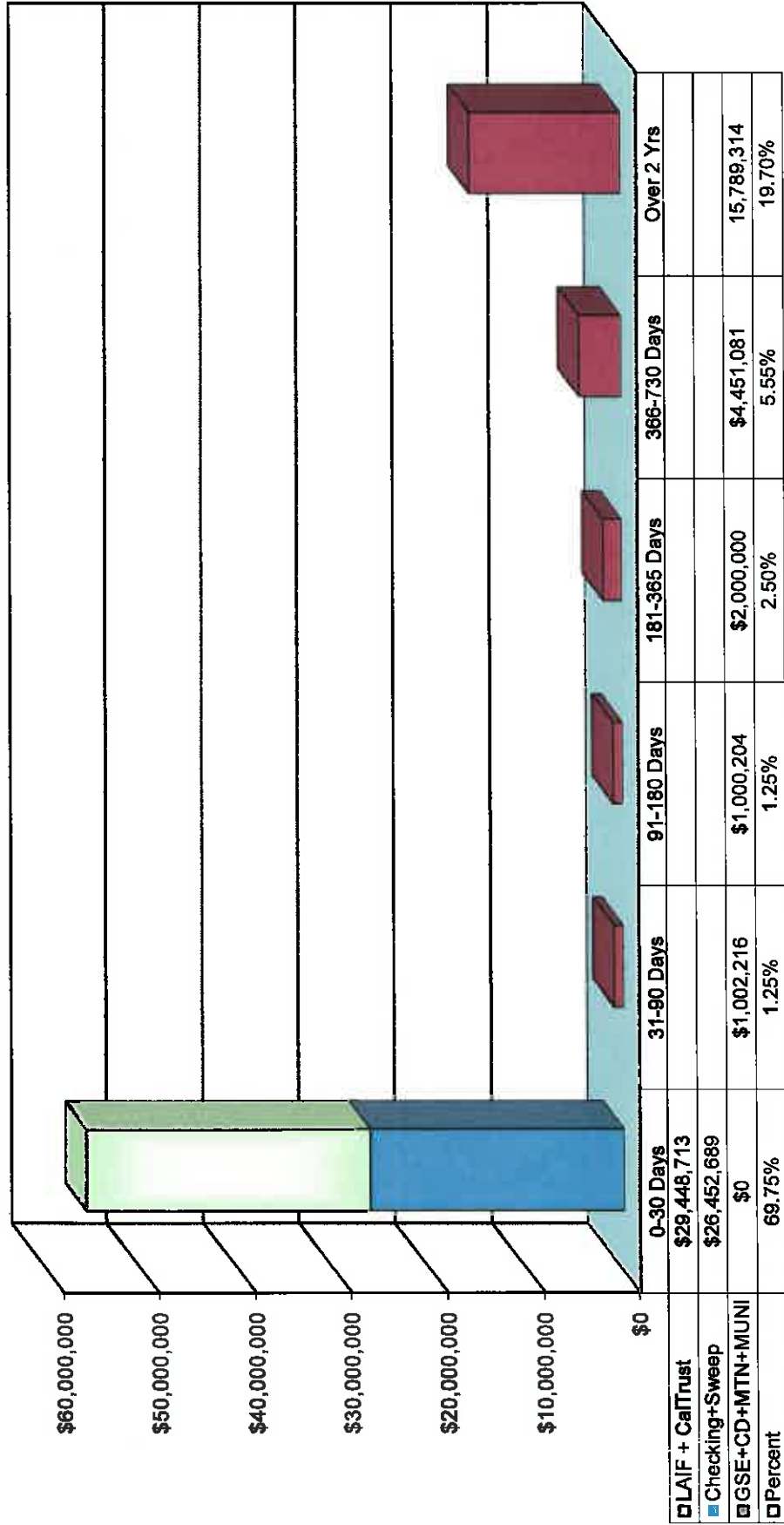
Unrestricted Agency Investment Portfolio

\$80,144,216





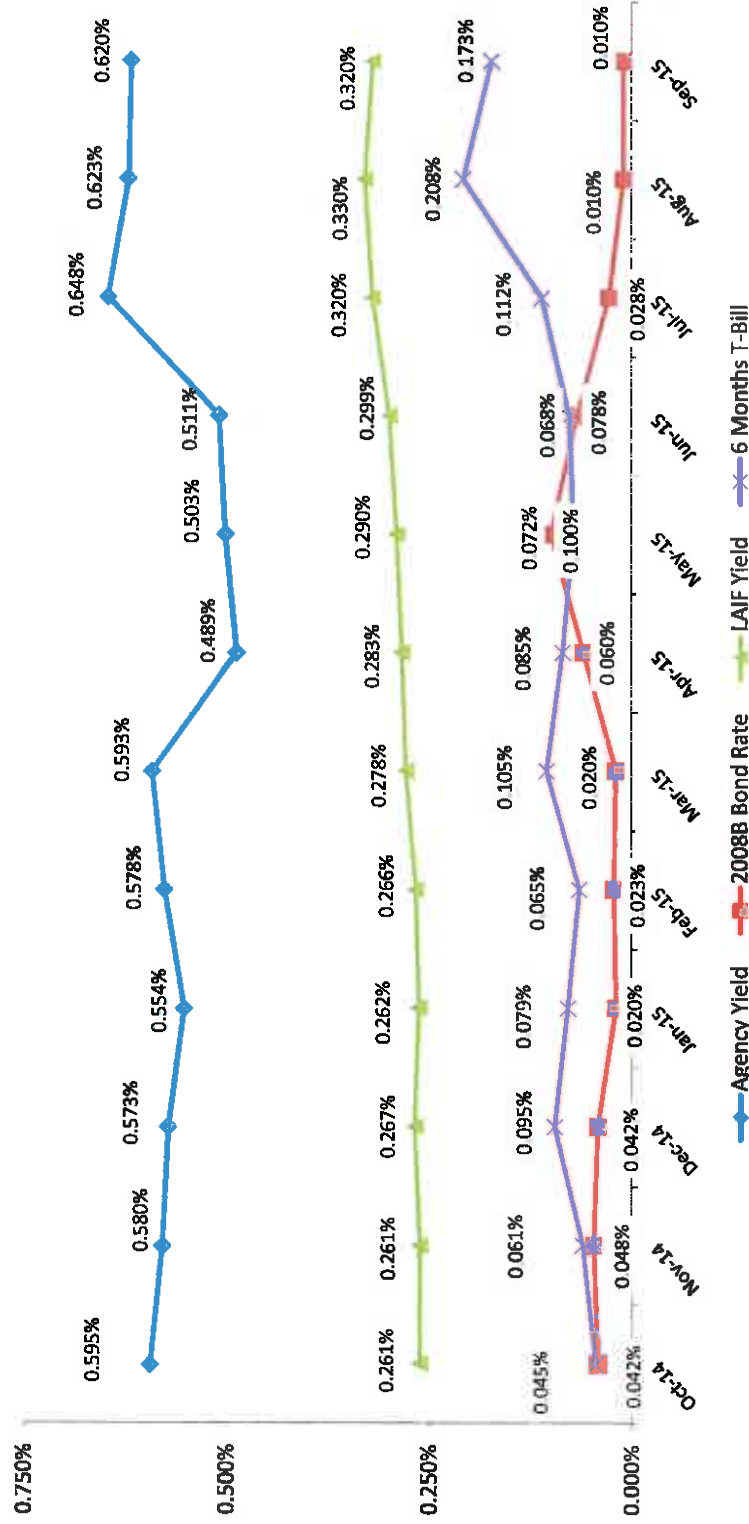
**Inland Empire Utilities Agency**  
**Treasurer's Report of Financial Affairs**  
 For the Month Ended September 30, 2015  
*Directed Investment Portfolio Maturity Distribution*  
**\$80,144,216**



**INLAND EMPIRE UTILITIES AGENCY**  
**Cash and Investment Summary**

Month Ended  
 September 30, 2015

**Inland Empire Utilities Agency**  
**Treasurer's Report of Financial Affairs**  
 Demand Deposit Accounts  
 Agency Yield Comparison





*Inland Empire Utilities Agency*

A MUNICIPAL WATER DISTRICT

# **Treasurer's Report of Financial Affairs for September 30, 2015**

**November 2015**

**Board Meeting**

# Report of Financial Affairs

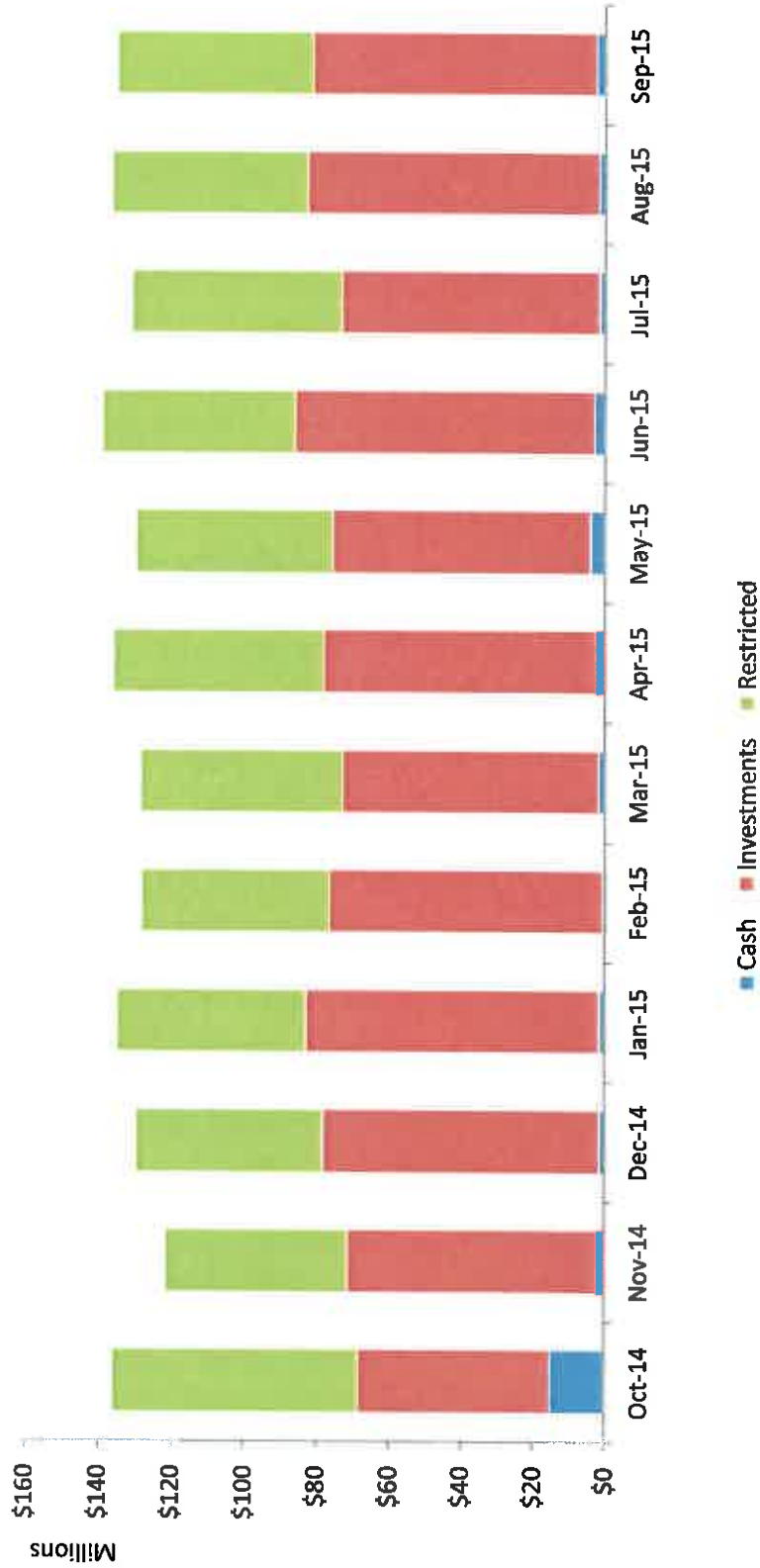
## Liquidity

Description	September 2015	August 2015	Increase (Decrease)
Cash, Investments, Restricted Deposits	\$135.1M	\$137.0M	(\$1.9M)
Investment Portfolio Yield	0.620%	0.623%	(0.003%)
Average Days Cash on Hand	173 Days	170 Days	3 Days

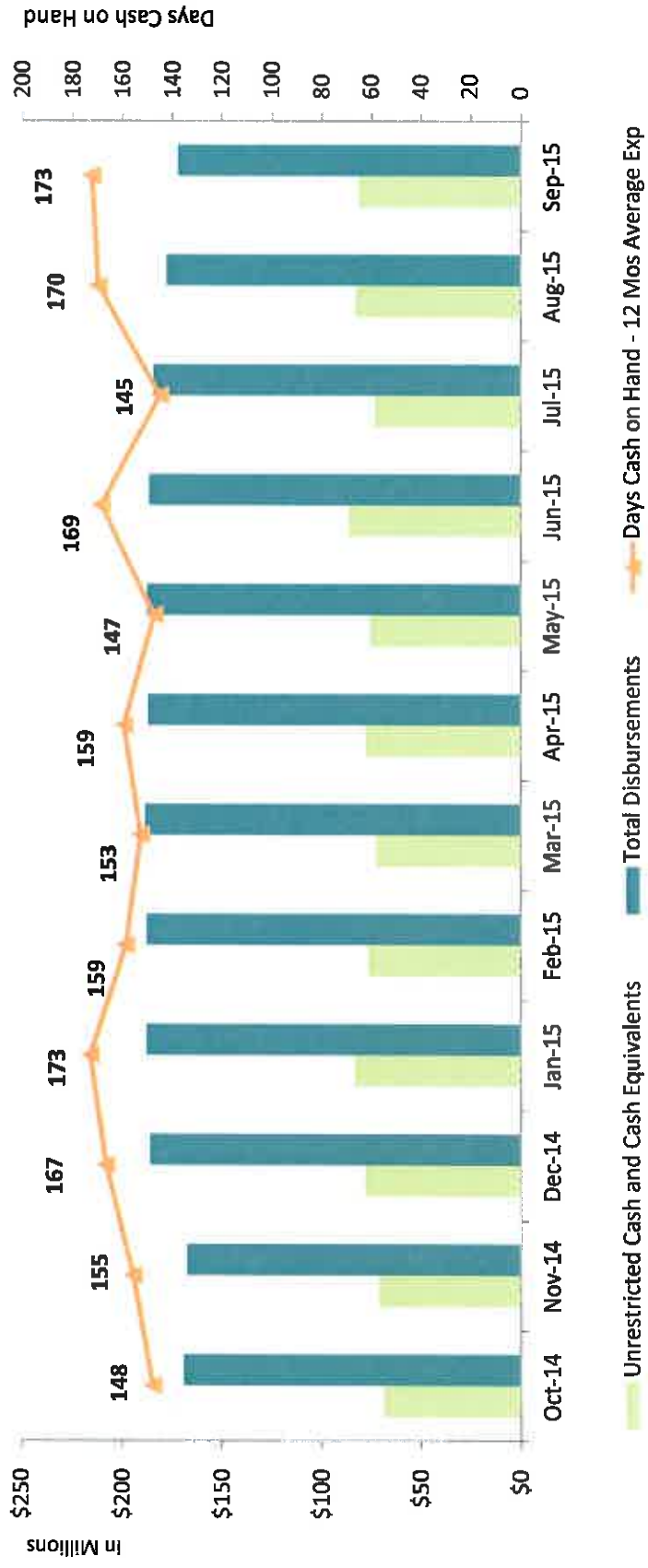
## Portfolio

Term	Description	Allowable Threshold	Investment Value (\$ million)	Yield	Current Portfolio %
Short Term, Under 1 Year:	LAIF	\$50M	\$24.8	0.32%	31%
	CalTrust	\$20M	\$3.5	0.52%	4%
	Citizens Business –Sweep	40%	\$26.5	0.30%	29%
	Bank of the West – MMA	20%	\$1.1	0.18%	1%
	State and Local Municipal Bonds	10%	\$1.0	1.35%	1%
	Medium Term Notes	10%	\$1.0	1.07%	1%
	US Government Securities	n/a	\$2.0	0.38%	2%
	CBB Checking	40%	\$0.0	0.30%	0%
1 to 3 Years:	Brokered CDs	30%	\$2.7	1.23%	3%
	Medium Term Notes	10%	\$3.1	1.36%	3%
	US Treasury Note	n/a	\$1.0	0.64%	1%
	US Government Securities	n/a	\$4.0	1.01%	4%
Over 3 Years:	Brokered CDs	30%	\$0.5	2.41%	1%
	US Government Securities	n/a	\$9.0	1.70%	10%

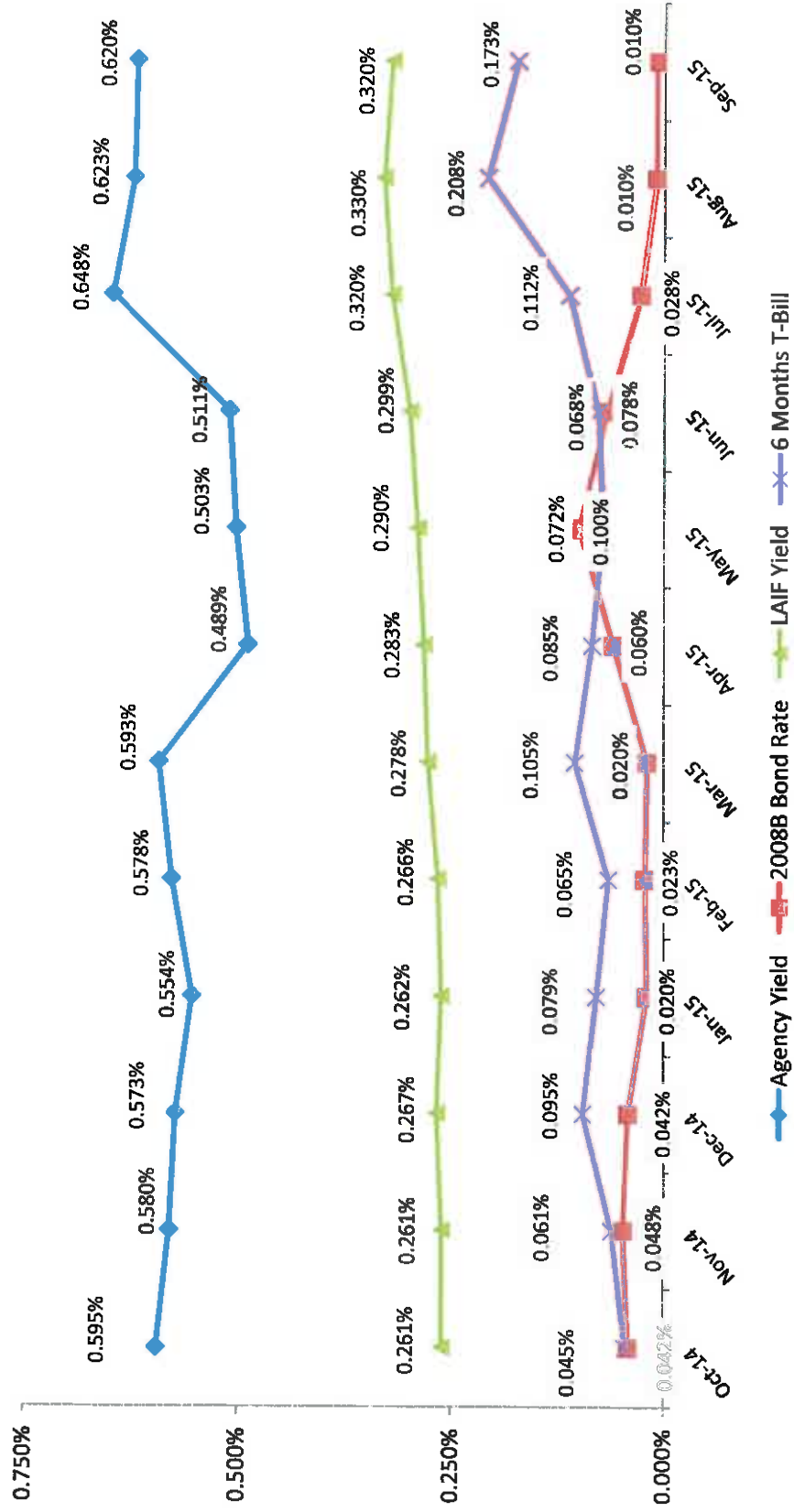
# Total Cash, Investments and Restricted Deposits



# Day Cash On Hand 12 Months Rolling Average



# Month End Portfolio Yield Comparison

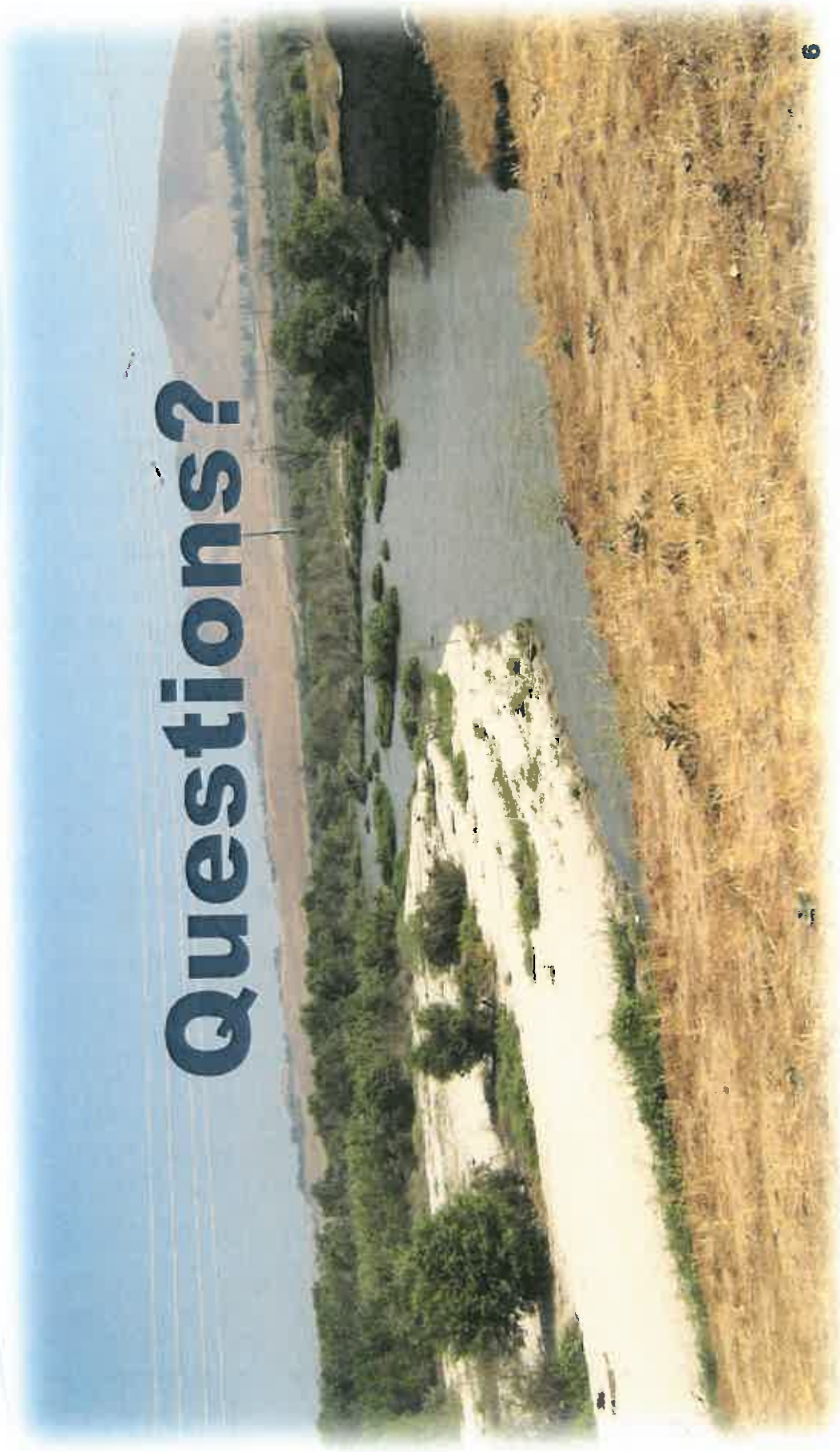






***Inland Empire Utilities Agency***  
**A MUNICIPAL WATER DISTRICT**

# Questions?






**INFORMATION  
ITEM**


**3E**

Date: November 18, 2015

To: The Honorable Board of Directors

Through: Public, Legislative Affairs, and Water Resources Committee (11/11/15)

From: P. Joseph Grindstaff  
General Manager 

Submitted by: Kathy Besser   
Manager of External Affairs

Subject: Public Outreach and Communication

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### **RECOMMENDATION**

This is an informational item for the Board of Directors to review.

### **BACKGROUND**

#### November

- November 18, MWD Water is Life Poster Contest Recognition Event, MWD Headquarters (Board Room), 10:00 a.m. – 1:00 p.m.

#### December

- December 16, Employee Holiday Luncheon, Los Serranos Country Club, 15656 Yorba Ave, Chino Hills, 11:00 a.m. – 3:00 p.m.

#### January

- January 14, Blood Drive, IEUA HQB Event Room, 10:00 a.m. – 2:00 p.m.

#### February

- Cypress Elementary GIES Dedication, 9751 Cypress Ave, Fontana, 5:00 p.m. – 6:30 p.m.

#### April

- Eagle Canyon Elementary GIES Dedication, 13435 Eagle Canyon Drive, Chino Hills, Time TBD

#### May

- Truman Middle School GIES Dedication, 16224 Mallory Drive, Fontana, Time TBD

Outreach/Education - Civic Publications Newspaper Campaign

- IEUA ran a spadia ad focusing on the drought campaign and sustainability.
- IEUA staff is working with Civic Publications to develop an email blast and display ads for outreach. The *Kick the Habit* campaign theme will be implemented within these outreach tools.

Media and Outreach

- IEUA staff is working with member agencies to distribute *Kick the Habit* mirror clings and vehicle magnets. Internally, staff is working on distribution and placement of vehicle magnets on all Agency vehicles.
- *Kick the Habit* print advertisements ran in the *Chino Champion* on October 3, 2015 and in the *Chino Connection* on November 7, 2015.
- *Kick the Habit* bus advertisements began on October 5, 2015 and will run for six months. Mirror clings have been placed in restrooms at the Ontario Mills Mall for six months, and we are working with management at Victoria Gardens and the Chino Spectrum to do the mirror cling displays at these locations as well.

Education and Outreach Updates

- Water Discovery Program: 334 Girl Scout troop members, elementary, middle and high school students have taken part in the park field trip from July 1, 2015 through October 31, 2015. Twelve additional Water Discovery Field Trips for school year 2015/16 have been scheduled. The Busing Mini-Grant program will be ending in December 2015. Only schools within IEUA's service area will qualify for busing grants after December 2015.
- Staff is currently working on scheduling principal meetings at the school districts within IEUA's service area to promote upcoming education programs and opportunities.
- IEUA staff and member agency representatives held the annual Landscape and Water Conservation Fair on October 17, 2015 at the Chino Basin water Conservation District. Over 650 community members attended the event which was host to environmental vendors, nurseries, water education booths, and environmental shows.
- IEUA staff is developing the FY 2014/15 Annual Report.
- Staff, in cooperation with member agencies, has recruited three teams for MWD's 2016 Solar Cup Competition to be held May 13-16, 2016. Final team names and contact information were submitted to MWD on October 1, 2015 for the 2016 program year: Chino High School (Chino), Chino Hills High School (Chino Hills) and Henry J. Kaiser High School (Fontana). Boat Building Workshops will be held at Three Valleys Municipal Water District on Saturday, November 7 and November 8, 2015.
- IEUA hosted a Project WET teacher's workshop on October 27, 2015. Educators from IEUA and Three Valleys MWD's service area attended where they learned about water education and ways to incorporate water-related activities in the classroom.

**PRIOR BOARD ACTION**

None.

**IMPACT ON BUDGET**

The above-mentioned activities are budgeted in the FY 2015/16 Administrative Service Fund, External Affairs Services budget.

**INFORMATION  
ITEM**

**3F**

# *Innovative Federal Strategies* LLC

Comprehensive Government Relations

## MEMORANDUM

**To:** Joe Grindstaff and Kathy Besser, IEUA

**From:** Letitia White, Jean Denton, and Drew Tatum

**Date:** October 30, 2015

**Re:** October Monthly Legislative Update

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### ***Congress Passes Two Year Budget Deal***

In the final days that former Speaker John Boehner (R-OH) led the House of Representatives, he worked with the White House and Senate leaders to craft a two year budget plan that raises the debt ceiling and provides relief from the Budget Control Act caps that sets limits on discretionary domestic and defense spending. According to estimates from Treasury Secretary Jacob Lew, Congress had until November 3 to act before the administration would no longer be able to meet its daily obligations and risk default on the nation's debt. Amid an internal party struggle to replace Boehner, he was able to "clean the barn" for his successor in hopes of allowing the new Speaker of the House to start without looming fiscal issues early in his term.

Leaders from the House, Senate, and the White House ultimately ironed out an agreement that suspends the debt ceiling through March of 2017 when a new Congress and a new President will have to negotiate the parameters for modifications to the debt ceiling. Additionally, the deal provides approximately \$80 billion in relief from sequestration for both defense and domestic programs for fiscal years 2016 and 2017. In order to pay for the cost, negotiators tapped a number of sources, including making changes to Medicare and Social Security, auctioning off government-controlled wireless spectrum, selling crude oil from the Strategic Petroleum Reserve, and tightening tax rules for business partnerships. In order to make changes to the mandatory spending programs like Medicare and Social Security, Republicans had to give up concessions, including limiting a historic premium increase for Medicare Part B beneficiaries and preventing a potential 20 percent cut to Social Security Disability Insurance benefits.

The path to passage was not easy, as a drafting error was discovered in the legislation a few hours after the plan was unveiled. Negotiators quickly went back to the table to update the agreement so it was fully paid for over a ten year period, which allowed the House Rules Committee to advance the legislation to the floor for consideration by the full House. When the legislation made its way to the floor on Wednesday, it took the support of a united Democratic caucus and 79 Republicans to pass the bipartisan agreement. Because the House used a bill that had already cleared both the House and Senate, but in different forms, it helped speed up the process in the Senate by eliminating the need for a cloture vote on a procedural motion. Instead, the Senate just had one procedural cloture vote with a 60 vote threshold before a vote on final passage. Two presidential candidates, Senator Ted Cruz (R-TX) and Senator Rand Paul (R-KY),

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returned to Washington in order to speak out against the legislation. Even though Rand Paul promised to “filibuster” the legislation, his options were limited since he was at the debate when Majority Leader Mitch McConnell (R-KY) started the procedural maneuvers to bring the legislation up for a vote. In an effort to send the bipartisan legislation to President Obama before the end of the week, the Senate was in session into the early hours of October 30 for a procedural cloture vote and final passage. Just after 3:00am, the Senate cleared the measure on a vote of 64-35. President Obama has said he will sign the legislation as soon as it makes it to his desk.

The focus now turns to completing the appropriations process for the remainder of fiscal year 2016. Appropriations Committee staff were planning to meet as early as October 30 to begin discussion on the process. The House and Senate Appropriations Committees will need to give their subcommittees new 302(b) allocations, which are the topline numbers for each of the 12 annual spending bills. The current continuing resolution expires on December 11, giving Congress roughly 4 work weeks to craft an omnibus appropriations package that will pass the House and Senate without being vetoed by President Obama. Even though many of the subcommittees have been meeting with their counterparts in the opposite chamber, we still expect Congress to take all four weeks to complete work on the package.

### ***“Speaker” Paul Ryan***

Paul D. Ryan (R-WI) became the 54<sup>th</sup> Speaker of the House on Thursday, October 29, 2015. At age 45, is the youngest Speaker of the House in over 150 years. Ryan is also the first former Congressional staff member to take the chamber’s top position. In September, he told his colleagues he was not interested in the position when former Speaker John Boehner told the conference he would be stepping down at the end of October. After Majority Leader Kevin McCarthy’s (R-CA) decision to step down, Ryan again faced pressure from his Republican colleagues to run. He ultimately said he would run for the position if he could be a unifying candidate while not sacrificing time with his family. After securing the nomination of his party the day before with 199 votes, he was elected speaker with 236 votes—well above the 218 votes required. The House Freedom Caucus opted not to endorse Ryan, but only 9 members of the approximately 40 member caucus deflected when the House elected a new speaker.

In the speech he gave before being sworn in, Ryan indicated he was planning change the way the House is run and send the primary job of drafting major legislation back to the committee level. He also indicated he hopes to be inclusive of more opinions from Members of Congress and wants to hear good ideas, regardless of party affiliation. Ryan’s leadership style is probably influenced from his time serving on a Congressional staff as well as serving as the Chairman of two House committees. As a former staffer, he has the advantage of having an intimate understanding of the process, the way staff members advise their boss, and the hard work that goes into running the institution. With the bipartisan budget deal completed, Ryan’s first challenge will not come until the House takes up an omnibus appropriations package in early December.

### ***Senate Committee Holds Hearing on Drought Legislation***

The Senate took its first legislative action on the drought in California during the first full week of the month. Among other legislation, the Senate Energy and Natural Resources Committee received testimony on legislation introduced by Rep. David Valadao (R-CA) that has passed the

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House, and legislation introduced by Senators Dianne Feinstein (D-CA) and Barbara Boxer. Chairwoman Lisa Murkowski (R-AK) continued her call for common ground and legislation that would help the entire western United States. Both Senators Feinstein and Barbara Boxer testified in support of their legislation, as did Representative David Valadao (R-CA) in support of the House passed bill. We have heard that staff from the House Natural Resources Committee has been meeting with staff from the Senate Energy and Natural Resources Committee, but no proposals have been written or passed back and forth among staff. No date for a markup has been announced, leaving the possibility of floor time for drought legislation before the end of the year in doubt.

### ***Transportation Bills Advance Amid another Short-term Patch***

The House Transportation and Infrastructure Committee has been able to harness bipartisan momentum, introducing and advancing a multiyear transportation plan within the last two weeks of October. The panel has struggled to come to an agreement this year, passing a third temporary extension to the highway bill, which now expires on November 20. Although the committee has advanced the legislation to the floor for consideration, both Republicans and Democrats believe that the House should not consider it until the Ways and Means Committee comes up with a proposal to pay for the six-year infrastructure plan. The House only has two working weeks in November to come up with pay-fors, pass a plan, and work out its differences with the Senate.

Plans for the Ways and Means Committee to meet to discuss potential funding mechanisms is complicated by the loss of its Chairman, Paul Ryan, who was—as reported above—elected Speaker of the House on Thursday, October 29. The committee will now need to meet to elect a new Chairman before determining how to pay for a long term authorization. Senate Environment and Public Works Ranking Member Barbara Boxer (D-CA) is encouraging the House to bring its bill up for a vote without funding to allow House and Senate transportation leaders to allow a conference committee to hammer out the differences and agree on pay-fors. At this point, her colleagues in the House are not convinced that it is a viable path forward, as they want their own revenue measures considered at conference.

With authorization originally scheduled to expire on October 29, the House and Senate added 22 days of authorization to give Congress additional time to work through regular order. Additionally, the temporary patch included a delay in a requirement to install Positive Train Control (PTC) technology on a portion of freight railroad networks for three years. Railroad operators, including Amtrak, pressured Congress to extend the deadline by threatening they would stop running trains after December 31, 2015. Senator Boxer had vowed to block a short-term transportation bill that pushes the mandate further into the future, but didn't raise objections under the threat of a lapse in surface transportation authority.

### ***“Waters” Rule Halted Nationwide***

The U.S. Court of Appeals for the Sixth Circuit based in Cincinnati, Ohio issued a nationwide stay against the enforcement of the “waters of the United States” regulation issued by the Environmental Protection Agency (EPA) and the U.S. Army Corps of Engineers. The majority of the divided court wrote:



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[W]e conclude that petitioners have demonstrated a substantial possibility of success on the merits of their claims. Petitioners first claim that the Rule's treatment of tributaries, "adjacent waters," and waters having a "significant nexus" to navigable waters is at odds with the Supreme Court's ruling in *Rapanos*, where the Court vacated the Sixth Circuit's upholding of wetlands regulation by the Army Corps of Engineers. Even assuming, for present purposes, as the parties do, that Justice Kennedy's opinion in *Rapanos* represents the best instruction on the permissible parameters of "waters of the United States" as used in the Clean Water Act, it is far from clear that the new Rule's distance limitations are harmonious with the instruction.

The majority concluded that there were good reasons to maintain the status quo while the court dispenses with challenges to the rule. It also noted that the rule had already been stayed in 13 states, and that the additional stay provides nationwide uniformity.

As we have previously reported, the House has passed legislation that would lock the rule from being enforced. The Senate is scheduled to begin considering its own legislation that would require the Secretary of the Army and the Administrator of the Environmental Protection Agency to propose a regulation revising the definition of the term "waters of the United States" in early November.

### ***Outlook for November***

We anticipate a lot of behind the scenes work to occur during the month of November to finalize an omnibus appropriations package. This will include work at the committee level in both the House and Senate. The House and Senate will also look to work through differences on cybersecurity legislation since the Senate has just passed its own bill. The Senate is scheduled to spend the first week of the month on legislation requiring the EPA and Army Corps of Engineers to go back to the drawing board on the "waters of the United States" rule. Majority Leader Mitch McConnell has also indicated that the Senate will take up the reconciliation language passed by the House that would strip certain provisions from the Affordable Care Act. The legislation will be vetoed by President Obama, but using budget reconciliation is the only way Republicans have the chance to advance an Affordable Care Act repeal, as it isn't subject to a filibuster from Democrats. While no further action on the California drought has been announced, we will be monitoring the Senate Energy and Natural Resources Committee for upcoming legislative markups.

**INFORMATION  
ITEM**

**3G**

# *Agricultural Resources*

635 Maryland Avenue, N.E.  
Washington, D.C. 20002-5811  
(202) 546-5115  
[agresources@erols.com](mailto:agresources@erols.com)

October 30, 2015

## Legislative Report

**TO:** Joe Grindstaff  
General Manager, Inland Empire Utility Agency

**FR:** David M. Weiman  
Agricultural Resources  
LEGISLATIVE REPRESENTATIVE, IEUA

**SU:** Legislative Report, October, 2015

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October became the month of the unexpected. I've been in Washington since 1971 and never saw anything quite like it.

### Snapshot.

- \* October was largely consumed Speaker Boehner's decision (and its aftermath) to step down as Speaker *and* resign from the House effective October 30. The House became embroiled in internal strife in the Republican caucus over leaders and policy.
- \* Boehner's decision set in motion a series of highly unusual mid-session Republican caucus elections.
- \* Rep. Kevin McCarthy, House Majority Leader under Boehner, ran for Speaker and was widely expected to be elected. At the last second (literally), he withdrew, throwing the Caucus into highly visible political chaos.
- \* The Freedom Caucus, a group of conservative House Rs, took credit for driving Boehner into retirement AND blocking McCarthy's ascension to the Speakership.
- \* More than a dozen House Rs explored jumping into the Speakership (two did – Rep. Daniel Webster from FL (distant relative of the historical Daniel Webster) and Rep. Jason Chaffetz from Utah (a button-hole relative of Governor Michael Dukakis).
- \* After McCarthy withdrew, Boehner and many others turned to Rep. Paul Ryan (R-WI), the current Chair, Ways and Means Committee and former VP candidate on the Romney

- ticket (2012).
- \* Ryan, initially (and repeatedly) said no.
  - \* Following a week-long congressional break, Ryan returned to Washington. After meetings with all Caucus factions and extensive talks with out-going Speaker Boehner, agreed to seek the Speakership (all claimed – he was the ONLY one who could do it).
  - \* During the last week of October, the Caucus and then the full House elected Paul D. Ryan as Speaker.
  - \* Speaker Boehner was given an emotional and heart-felt (if not bittersweet) retirement.
  - \* Amid pomp and circumstance befitting the occasion, Ryan was elected Speaker.
  - \* Boehner meanwhile, in the closing hours of his Speakership, worked with President Obama, Minority Leader Pelosi and the Senate leadership on a bi-partisan basis to fashion legislation that would (a) would address the debt limit (expiring Nov. 3); (b) amend the spending (sequestration) budget caps, adding \$80 Billion to the current fiscal year budget; and (c) pass a series of other grid-locked legislative propositions.
  - \* Shut-down was averted (but again).
  - \* On a separate track, a short-term highway bill was moving and the House passed legislation over intense opposition from the Freedom Caucus to reauthorize the Export-Import bank (a legislative flash-point between House Rs and the Freedom Caucus.
  - \* The moment Boehner departed (October 30), the House sign shop removed his name from the Speaker's Office and installed a name plate with Speaker Ryan's name.
  - \* Ryan is now assembling staff and building a Speaker's team. So far – positive reviews.
  - \* When McCarthy withdrew from the Speaker's race, he retained his position as Majority Leader. As a result, pending elections for House R leadership positions based on the assumption that McCarthy would become Speaker became moot and instantly ended. McCarthy remained the position of Majority Leader. Steve Scalise remained Majority Whip. Other leadership positions remained the same.

### As A Result...

#### Ryan Gives Up Ways and Means Gavel

- When Ryan became Speaker, one significant change did occur.
- Ryan resigned as Chair, House Committee on Ways and Means.
- An election for the Chair will soon occur (the race is now underway) and results uncertain.
- Reps. Brady of Texas and Pat Tiberi of Ohio are both seeking the position.
- For a time, Rep. Devin Nunes, (R-CA), a senior Ways and Means Member, put his hat in the ring, but Speaker Ryan, immediately after becoming Speaker, asked Nunes to stay on as Intel Chair and he agreed.
- There is already speculation that the Speaker could prefer someone else (other than Brady or Tiberi) to chair Ways and Means, and this is expected to play out and get

resolved sometime in November.

- This Committee is important to IEUA because of pending tax “reform” legislation that could (might) threaten to the deductibility of municipal bonds – the funding mechanism for local governments finance (for, in addition to water supply and waste water investments, airports, hospitals, schools, energy investments, highways – and every other kind of local infrastructure).
- The Municipal Bonds Coalition of America is watching this closely, given the implications.
- If you recall, an policy and legislative effort is underway to reduce tax RATES. In order to get down to 25% personal and 25% corporate rates, scores of tax code provisions have to be eliminated including a very real threat to the financial integrity of municipal bonds).

#### **House Rules – To Be Changed or Not (A Proxy for Control of the House)**

- When McCarthy dropped his bid for the Speakership, he publicly stated that the House R Caucus had become “ungovernable.”
- This was, at the time, a stunning (and publicly obvious) admission.
- Within hours and days, the reality of that conflict was openly acknowledged (and a large part of the reason that Ryan resisted the initial efforts to draft him for that position).
- Capitol Hill newspaper, Politico “decoded” McCarthy’s declaration key demands to McCarthy were leaked.
- The 40-Member Freedom Caucus prepared a sweeping six-page, 21-point, detailed set of proposed House Rule changes – which were submitted to McCarthy.
- McCarthy was told – the price of their support hinged on his acceptance of the Rules changes advanced by the Freedom Caucus.
- Simply put, if accepted, the Speaker’s power would be effectively stripped from the Speakership.
- Absent agreement, the 40-Member Freedom Caucus would NOT support him, throwing the Speakership (and the House itself) into uncontrolled chaos (no one could get to the requisite 218 votes).
- McCarthy refused to seek the Speakership over this (though few understood the “WHY” at the time).
- Ryan told the Freedom Caucus that he would not agree to any changes, but would (a) consider them; and (b) operate a more inclusive process. For now, that’s working.

**Immediate Legislative Response – Government Shut-Down Averted (again, but only for now)**

- At the end of September a short-term CR was enacted for the entirety of the Federal Government. A threatened shut-down was averted.
- Enactment, the last week of October, of a bill amending the debit limit accomplished the same thing. A threatened shut-down was averted.
- The enacted CR is a short-term funding “fix” that extends only to December 11. All 12 funding bills will have to be enacted (or subject to another CR) at that time. It will be Ryan’s first “test” as Speaker.
- In the Senate, Senator (and presidential candidate) Rand Paul, publicly declared that he would return to Washington and filibuster the funding package negotiated by Speaker Boehner and Senate Majority Leader (and fellow KY senator), Mitch McConnell. McConnell, in no mood for a shut down, blocked the effort and, in the end, it fizzled out rather quickly.

**Water/Weather/Drought**

**Water/Drought – Senate Action on Boxer-Feinstein Drought Bill**

- Senate Energy Committee drought hearing occurred on October 8. Senators Boxer and Feinstein testified. Rep. David Valadao testified on behalf of the House bill. Hearing was predictable and relatively low-key. Murkowski repeatedly urged all parties to work together.
- Witness list was very limited, however Jeff Kightlinger, MWD testified and so did a Valley representative. Other, non-Californians appeared as well.
- A markup in the Senate could occur in November, but that remains unclear. This was reported this last month as a target – a maybe, and little changed as October came to a close.
- Discussions with Members, House and Senate offices and Committees indicate that, to date, little or no progress has been made.
- Senator Murkowski, Chair, Senate Energy Committee, previously indicated that a California drought bill will be incorporated into a larger, west-wide drought bill. However, even though no such bill is circulating at this time either some reps insist that the bill will be marked up before Thanksgiving. I will be surprised.

**El Nino**

- Last month – and months prior – I reported on “El Nino is Coming, El Nino is Coming...” The report is unchanged. All scientific and technical reports affirm the El Nino condition. The first storms are now forming and beginning to hit – in both Southern and Northern CA.

- Last month's report – and the Month Prior – Questions. *“El Nino stories from NASA, the Weather Service and academics who track such events are now appearing daily in print and e-media and are reporting this EL Nino to be one of the strongest formations ever is building in the Pacific in years. Questions remain. Is this a “drought-buster OR a flood-inducer? Will precipitation from storms have a chance to permeate the dry landscape, OR instead, become huge “gully-washers?” Where will the storm hit? Most reports and indications are that Southern California will receive the brunt of an El Nino. What about Northern California? Will it come as rain OR reach the higher elevations as snow? And, will any of this precip carry over to the Colorado River Basin? Within the IEUA service area, if flooding occurs, there will be concerns about the ability to capture and recharge as much water as possible and limit conflicts with the Chino Dairies. Right now, there are more questions than answers. IEUA should be coordinating with SAWPA, the Corps and local governments if flooding occurs or to manage it if/when it comes.”*
- The critical unanswered questions – how far “up the map” with El Nino hit (i.e. does it extend to Northern California; and if so, does the precip come down as rain or snow?). Does California get any snow-pack from this storm system and if so, how much? The answer to those questions not only impact 2016, but 2017 as well.

#### **Unanticipated Drought-Related Federal Tax Issue**

- ***Unintended Consequences of Meeting Governor's Drought Orders.*** Reduce water consumption – pull grass policy.
- ***Pull Lawns, Get MWD Grants – Owe Taxes on the Grant.*** Turns out, if one owned a home or property AND if one received a lawn removal grant, then the amount of that grant is “taxable income.” In some cases, the numbers turn out to be significant.
- ***MWD-Led Effort to Eliminate Tax on Rebates.*** The Energy Policy Act of 1992 contains a provision the energy savings are exempt from taxes. With that Act as precedent, MWD is presently in discussions with the Senate Finance Committee, other groups and Treasury to resolve this problem.

#### **IEUA Washington Trip and Meetings**

- ***IEUA Delegation – and Meetings.*** Director Steve Elie, General Manager Joe Grindstaff and Director of External Affairs, Kathy Besser came to Washington for three days of meetings with the IEUA congressional delegation, House Natural Resources Committee (Water and Power Subcommittee), the US Department of the Interior, State of California, ACWA, and WateReuse Association.
- Discussions at all meeting focused on water recycling, program funding, and the drought bill provisions impacting Title XVI and the recycling program.
- During these meetings, IEUA asked the US Department of the Interior to review and reconsider its previous decision to reject a IEUA-Cucamonga Valley Water District water

recycling proposal based on what IEUA believes is a misinterpretation of the situation. That DOI/BuRec review remains underway.

### **Drought Status – CA and Rest of the West**

- ***Drought Conditions – California.*** An all but identical report from last few months. At the end of September, all 58 California Counties remained in various levels of drought. According to the NOAA/USDA's well-visited Drought Monitor web site, 100% of California remains in various levels of drought and the Monitor's weekly update reported that more than 90% of the entire State was in severe, extreme or exceptional drought. This condition has remained static for months.
- ***Drought Conditions – Rest of the West.*** This map is shifting – in part. Coastal states (CA, OR, and WA plus NV) remain in severe drought. Same with Idaho and western Montana. Drought is subsiding in UT and Arizona. The middle part of the West – Eastern Montana, Wyoming, Colorado, the Dakotas, Kansas, Nebraska and Oklahoma, most of NM and almost all of Texas are largely drought free at this time. Texas received significant precip (aftermath of Hurricane Patricia coming up from Mexico).

### **Looking Into November**

- Speaker Ryan settles in.
- Ways and Means Chair to be selected. Subcommittees could be impacted – and chairmanships changed as well.
- Legislative Washington begins to return to a (new) sense of normal.
- Drought legislation continues to be watched – markup timing remains uncertain.
- As 2015 winds down and 2016 approaches – yes, we're in the middle of a Presidential race and it impacts everything.



**INFORMATION  
ITEM**

**3H**



**October 30, 2015**

**To:** Inland Empire Utilities Agency  
**From:** Michael Boccadoro  
President  
**RE:** October Legislative Report

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**Overview:**

The Governor took until the very last day to finish taking action on the 941 bills passed by the Legislature this year. He signed 808 and vetoed 133. He approved several bills on water conservation including bills to protect homeowners who let their lawns go brown or install artificial turf; several bills to clean up the Sustainable Groundwater Management Act passed last year; and of course SB 350, to increase the state's renewable energy and building efficiency standards.

As the year winds down, conversations about what the Legislature will focus on next year have already started. At the top of the list for the Governor and the water community is Proposition 218 reform. The Governor has indicated that reform to Prop 218 needs to happen so that water agencies can implement water conservation measures including conservation rates. There is also significant discussion of how to fund water infrastructure projects in the future and how to provide funding for appropriate water agency consolidation. Stakeholders are keeping in mind that both of these issues require a two-thirds vote as these two topics continue to be discussed over the winter and when the Legislature returns in January.

The 2015 Draft Integrated Energy Policy Report was released by the California Energy Commission recently. The draft report includes a section on the water energy nexus and how steps the public water sector and the state can take to limit water loss and use energy more efficiently.

The California Air Resources Board (CARB) recently held a workshop to discuss post-2025 vehicle efficiency and emission goals. They released a proposal to reduce NOx and particulate matter from light-duty trucks. Their proposal comes ahead of a federal proposal to update vehicle emissions standards.

A recent poll showed that while most respondents do not know what the CA WaterFix is, when read a brief statement, 79 percent support the project. 86 percent of the respondents in the Inland Empire support the WaterFix, among the highest in the state.

The new version of net-energy metering program (NEM) is working its way through the CPUC process. Stakeholders have spent months working on models to test new tariff possibilities and have now submitted their own proposals for the new NEM 2.0 tariff. Southern California Edison, like the other utilities in the state, say that non-participating customers have to bear significant costs for the NEM program to continue and offer a proposal to significantly change the way the

NEM program works, making the fed energy back into the grid less valuable to the NEM participant.

## **Inland Empire Utilities Agency Status Report – October 2015**

### ***Governor Signs Bills***

The Governor has taken final action by signing 808 bills and vetoing 133 ahead of the October 11 deadline. The 14.1 percent veto rate is slightly higher than previous years, and there is no expectation the Legislature will come back to Sacramento to try to override any of those vetoes.

Taking effect on January 1 are several measures on water conservation including bills on when and how home owners associations can regulate artificial turf and outdoor irrigation. There were several bills that were cleanup bills from last year's Sustainable Groundwater Management Act. Finally, the Governor did sign legislation to regulate the use of plastic microbeads in personal care products.

On the energy side, the Governor predictably signed SB 350 to extend the renewable energy and sustainable buildings goals. As discussed last month, it was unclear if the Governor would sign AB 1288 (Atkins, D-San Diego) which expands the California Air Resources Board by two members from the environmental justice community appointed by the Legislature. Many thought he might not want the Legislature to have the power to make appointments, but he ultimately signed the bill.

### ***Potential 2016 Legislative Initiatives***

When the Governor signed AB 401 (Dodd, D-Napa) which directs further study on a low-income water rate assistance program by the State Water Resources Control Board and the Board of Equalization, he included a signing message that noted that Prop 218 is the biggest impediment to public water systems establishing low-income water rate assistance programs. He further states that Prop 218 is an obstacle to conservation pricing and stormwater improvements. He directed his administration to work with stakeholders and the Legislature to address this issue in 2016. His message made it very clear that Prop 218 reform will be heavily discussed over the winter and into 2016.

A working group including, Association of CA Water Agencies, CA State Association of Counties, and others has been established to take the lead on and pursue reform.

While SB 20 (Pavley), relating to a water public goods charge, was not heard in 2015, the measure remains in the Assembly Water, Parks and Wildlife Committee and discussions about "sustainable funding for orphan water infrastructure costs" (or as some call it, a public goods charge for water) will continue in 2016. The California Water Foundation has indicated that it will play a large role in the discussions and the administration and Senator Pavley have already committed to starting the process this winter. While no specific date has been given, there is a plan for a hearing to identify need for water funding resources in November with a January

hearing for stakeholder response and discussion of possible solutions. The water community remains somewhat divided on the “public goods charge” issue with some, including ACWA flat out opposing the idea, while others are interested in having a conversation about how to fund mandated water district consolidations, infrastructure projects and other potential projects with some sort of public goods charge.

It is important to remember that while discussions about Prop 218 reform and a public goods charge will be front and center over the winter and in early 2016, action on both policies would require a two-thirds vote of the Legislature. It is likely that not all the Democrats would be willing to vote affirmatively on these two issues in an election year, let alone having a few Republicans to provide the necessary two-thirds vote.

### ***2015 Draft Integrated Energy Policy Report released***

After extensive stakeholder workshops, the California Energy Commission (CEC) has released the draft 2015 Integrated Energy Policy Report (IEPR) which focuses on actions the state can take to help meet the new greenhouse gas reduction and renewable energy goals.

In addition to focusing on climate change, the report also addresses the ongoing drought in its own chapter detailing the impacts of less water and snowpack; actions that state has taken including energy efficiency rebate programs; updates from state agencies and recommendations for future actions.

Some of the water/drought-related recommendations include increasing the accessibility of real-time water and energy data; supporting diversification of water resources; encouraging research and investment into water-system improvements to improve leak detection and the minimization of water losses; investigating the potential for additional water savings through appliance efficiency standards (with a near-term focus on landscape and agricultural equipment as well as commercial dishwashers); and encouraging the efficient design of home hot water delivery systems. The CEC recommends the CPUC continue its evaluation of the nexus between water and energy use, and the implementation of customer incentives for water conservation.

### ***CARB discusses post-2025 vehicle GHG goals***

As federal regulators consider whether to revise vehicle efficiency GHG rules in place through 2025, state officials at CARB are laying out their goals for post-2025 vehicles. These goals include increasing fuel efficiency of light-duty gasoline vehicles and trucks.

CARB also wants to phase in new NOx standards for light-duty trucks between 2025 and 2030 and ensure that all new vehicles sold in California by 2030 are super-ultra-low emission vehicles. The strategy also includes a clean diesel fuel standard for adoption by 2020 that aims to reduce NOx, particulate matter and GHGs.

### ***Poll shows statewide support for California WaterFix***

EMC Research conducted a poll in late September asking voters about supporting the California WaterFix.

Generic questions found that 59 percent of voters feel like the drought is extremely important. Reliability of the water supply is extremely important to 40 percent while the condition of infrastructure including pipes, canals, levees, reservoirs and the statewide water distribution system is extremely important to only 33 percent of respondents.

When read a brief description of the project, 55 percent support the WaterFix, with 91 percent supporting improving the ability to move water to storage during wet years as a key reason for supporting the project.

After region specific statements were read, the support for the WaterFix improved to 79 percent with 86 percent in the Inland Empire supporting the project. The Central Valley and the Sacramento/North showed the lowest support with just 69 and 53 percent support respectively.

### ***Net-Energy Metering***

The existing Net-Energy Metering (NEM) program is scheduled to sunset in June of 2017 or when each of the utilities reaches the “NEM Cap,” which is 5 percent of their aggregate peak load. All projects that are interconnected before the program closes will stay on the current NEM tariff for 20 years after their interconnection date. As of September, Southern California Edison (SCE) is at 2.86 percent of the five percent cap, leaving 958.6 MWs to install under the current NEM program.

### ***NEM 2.0***

AB 327 (Perea, 2014) required the CPUC to create a new NEM program, NEM 2.0. The proceeding was focused first on creating models to try different tariff possibilities. Recently, parties used those models and submitted their proposals for the next version of the NEM to the CPUC. Not surprisingly, the proposals vary widely between solar industry interests, customer groups and the state’s investor owned utilities.

Citing the need to continue to grow renewable distributed generation, and market stability among other things, most solar groups called for continuing the program as is, noting that customers can easily understand the current program and the benefits it provides. The utilities have a different vision for NEM in mind. They argue that they need to recoup costs to maintain infrastructure. Each of the IOUs have proposed monthly access fees and other charges as well as substantially reduced payments for net-metered energy.

Specifically, SCE proposes that:

1. Participating customers first consume their self-generated energy onsite.
2. Participating customers purchase additional energy they need from the utility at their usual retail rate.
3. The utility compensates participating customers for self-generated energy exported to the grid at \$0.08/kWh

4. The utility collects a monthly charged based on the system's size to recover fixed costs associated with providing access to the grid for exports and power quality services.

The proceeding is moving fairly quickly as they hope to have the successor tariff in place by the end of the year, as required by AB 327.

This proceeding is being watched very closely by many parties including the Legislature and the Governor, who do not want to see the program be altered so drastically it becomes ineffective.

### ***Bill Update***

The matrix below reflects the final action taken on bills in the first year of the two-year session:

**INFORMATION  
ITEM**

**31**



CALIFORNIA STRATEGIES, LLC

Date: October 30, 2015  
To: Inland Empire Utilities Agency  
From: John Withers, Jim Brulte  
Re: October Activity Report

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Listed below is the California Strategies, LLC monthly activity report. Please feel free to call us if you have any questions or would like to receive any more information on any of the items mentioned below.

- Met with IEUA Executive Management Team to review priority issues and to discuss activities for October that they wanted accomplished. Specifically discussed concept of Water Governance Committee.
- Participated in discussions with staffs of San Bernardino and IEUA to discuss coordination of County and District legislative and public policy issue agendas that Executive Staff wanted.
- Received the recently released LAFCO report and updated strategy and approach to MSR including references to Lafco consultants
- Discussed County flood control and IEUA issues.
- Continue to monitor statewide water issues including the BDCP, water bond, and drought relief act activities.
- Outreach to Board Directors as needed on issues of interest
- Monitor Santa Ana Regional Board agenda and issues of interest to IEUA.



**INFORMATION  
ITEM**

**3J**

WCA State Legislation Matrix

Bill/Author	Subject	Status	Description	IEUA Position	Notes
AB 143 Stone (R)	Diamond Valley Reservoir: recreational use.	2-Year Bill	Would exempt prohibition recreational activity in which there is bodily contact with water by any participant in the Diamond Valley Reservoir.	Oppose	Bill was made a two-year bill.
SB 75 Budget Committee	Emergency Drought Appropriations	Held in Assembly	Emergency Drought Expenditures	Support	The Emergency Drought bills were passed in separate vehicles, ABs 91 & 92, contained the same language as SB 75
AB 888 Bloom (D)	Plastic Microbeads	Signed by Governor	Would prohibit, on and after January 1, 2020, a person, as defined, from selling or offering for promotional purposes in this state a personal care product containing plastic microbeads that are used to exfoliate or cleanse in a rinse-off product	Support	
SB 385-Hueso (D)	Hexavalent Chromium	Signed by Governor	Would authorize, until January 1, 2020, the State Water Resources Control Board, at the request of a public water system that prepares and submits a compliance plan to the state board, to grant a period of time to achieve compliance with the primary drinking water standard for hexavalent chromium by approving the compliance plan	Support	ACWA Sponsored
SB 471-Pavley (D)	Water Energy Nexus	2-Year Bill	Would include reduction of greenhouse gas emissions associated with water treatment among the investments that are eligible for funding from the Greenhouse Gas Reduction Fund. The bill would also make legislative findings and declarations, and a statement of legislative intent, with regard to the nexus between water and energy and water and reduction of greenhouse gas emissions.	Support	

**INFORMATION  
ITEM**

**3K**

**Federal Legislation of Significance Matrix**

Bill Number	Sponsor	Summary	Status
H.R.1314	Former Speaker John Boehner (amendment)	The bipartisan budget agreement suspends the debt ceiling through March of 2017, and provides \$40 billion in relief from the Budget Control Act caps for defense and domestic spending in Fiscal Years 2016 and 2017.	The bipartisan budget agreement has passed both the House and Senate. President Obama has indicated he will sign the legislation into law once it reaches his desk.
S.1894	Sen. Dianne Feinstein	Feinstein introduced legislation in the final days of the month to combat drought in California. Specifically for IEUA, it contains a title on recycled water. It also removed the requirement for Congress to authorize Title XVI projects.	<p>First Legislative Committee Hearing was held in early October. Staff from the Senate Energy and Natural Resources Committee and the House Natural Resources Committee are attempting to preconference a bill with compromise language between the Senate and House drought bills, but proposals are not being traded back and forth. Additionally, a compromise bill is expected to be West-wide, not just include California.</p> <p>A markup could come as early as November, but it is more likely that it would come in December with consideration on the floor in early 2016.</p>
H.R.2898	Rep. David Valadao	Western Drought Legislation introduced by California House Republicans that would ease environmental regulations provide for easier permitting for water storage projects.	<p>Passed the House.</p> <p>First Senate Legislative Committee Hearing was held in early October. Staff from the Senate Energy and Natural Resources Committee and the House Natural Resources Committee are attempting to preconference a bill with compromise language between the Senate and House drought bills, but proposals are not being traded back and forth. Additionally, a compromise bill is expected to be West-wide, not just include California.</p> <p>A markup could come as early as November, but it is more likely that it would come in December with consideration on the floor in early 2016.</p>
S.1140	Senator John Barrasso	Requires the Secretary of the Army and the Administrator of the	Introduced and reported favorably by the Environment and Public Works Committee for consideration by the Senate.

		Environmental Protection Agency to propose a regulation revising the definition of the term "waters of the United States".	The Senate is expected to consider the bill the first week of November.
H.R.1732	Rep. Bill Shuster	Requires the Secretary of the Army and the Administrator of the Environmental Protection Agency to withdraw their existing proposed rule regarding the waters of the United States and propose a new rule with additional stakeholder feedback.	This bill has passed the House. The Senate is currently considering their own version (mentioned above).
H.R. 2028 / S. _____	House and Senate Appropriations Committees	Energy and Water Appropriations Bills for FY16. The Senate bill contains an additional \$50 million for "Western Drought Relief" like last year's bill. That money was used primarily for recycled water projects.	Both the House and Senate Committees have cleared their annual appropriations bills, but only the House has passed its version. With the CR set to expire on December 11 <sup>th</sup> , Congress will have to pass either full-year funding bills or another continuing resolution. We are watching for a two year deal to develop that could increase the budget caps, and therefore potentially made additional funding available for drought mitigation projects.
n/a	Possible Omnibus Appropriations Package	Monitoring the potential development of an omnibus appropriations package that would use the "new" budget numbers with additional funding negotiated in the bipartisan budget agreement.	Staff from the House and Senate Appropriations Committees have already started to meet to discuss creating an omnibus package. While we expect work will take place at the committee level this month—including distributing the subcommittee allocations—we anticipate that Congress will wait until early December to move an omnibus package. The current continuing resolution expires on December 11

**INFORMATION  
ITEM**

**3L**

# Water Connection Fee Update



***Inland Empire Utilities Agency***  
**A MUNICIPAL WATER DISTRICT**

November 2015

# Water Connection Fee

## What is it

- \* One-time fee for all new or upsized meter connections to a water distribution system

## Meters Subject to Fee

- \* Potable
- \* Recycled
- \* Landscape

## Meters Exempt from Fee

- \* Temporary service
- \* Fire service
- \* Parallel service





# Water Connection Fee

## Individual Water Agency meetings since July 2015

- \* Tracking and documentation
- \* Payment of fees

## Next Steps

- \* Fact sheet for developers
- \* Database
- \* Website for FAQs and fee calculator
- \* Meter fee collection office

**Effective Date: January 1, 2016**



## Questions?

**Consistent with the Agency's business goal of Fiscal Responsibility by adopting rates that fully meet cost of service for key Agency programs.**



*The Inland Empire Utilities Agency (IEUA) is a regional wastewater treatment agency and wholesale distributor of imported water and recycled water. Today, IEUA and its member agencies are responsible for serving approximately 830,000 people over 242 square miles in western San Bernardino County. IEUA is committed to investing in our water supply for today and tomorrow through fiscal responsibility, efficient business practices, water supply management and environmental stewardship. For other inquiries regarding the fee, please call (909) 993-1600.*

What is the IEUA Water Connection Fee?	•The water connection fee is a one-time fee paid to IEUA for any new or upsized water meter connection to a water distribution system within the IEUA service area.
When does it take effect?	•The new fee takes effect January 1, 2016.
What types of meters are subject to this one-time fee?	<ul style="list-style-type: none"> <li>•Potable water</li> <li>•Recycled water</li> <li>•Landscape</li> </ul> •Temporary, fire & parallel service meters are not subject to the fee
What if I change out the water meter to a different size?	•The fee is determined based on the difference between the original and upsized meter. There is no fee for downsizing a meter.
How do I calculate the fee?	•Fees are determined by the size and number of water meters being installed for your particular project.
When do I pay the fee?	•Fee paid at the time you pay your local water agency meter fees.
Where do I pay the fee?	•Fees are paid directly to IEUA located at 6075 Kimball Avenue, Chino Monday-Friday 8:00 am - 5:00 pm or by mail to: P.O. Box 9020, Chino Hills, CA 91709 Attn: Water Connection Fee
What types of payment are accepted?	<ul style="list-style-type: none"> <li>•Personal check</li> <li>•Cashier's check</li> </ul>
How much will the new fee cost?	•Fees are calculated based on the 2016 adopted rates set forth below

**2016 WATER METER CONNECTION FEE RATES**

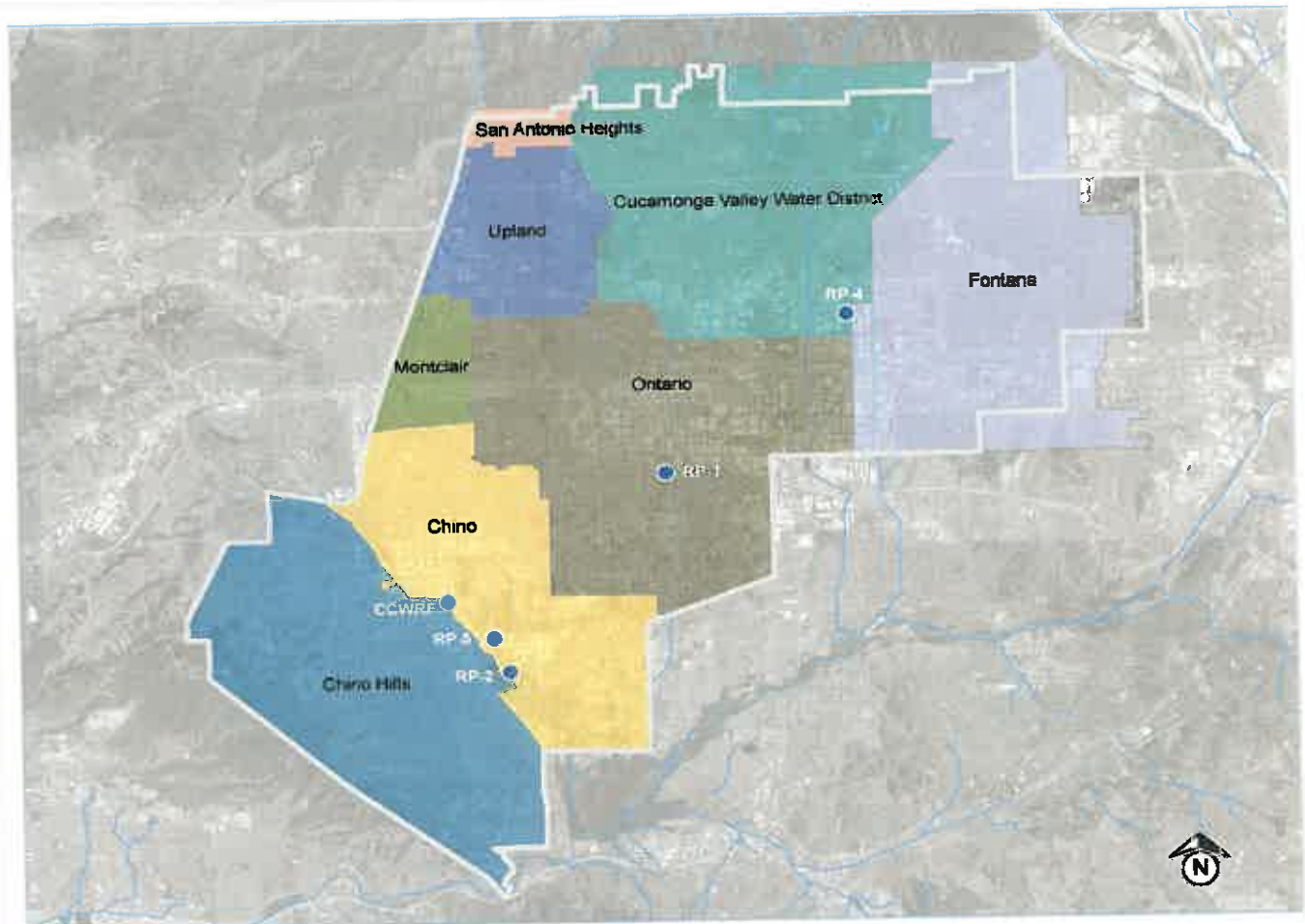
5/8"-3/4"	1"	1.5"	2"	3"	4"	6"	8"	10"	12"
\$693	\$1,733	\$3,465	\$5,544	\$12,128	\$21,830	\$48,510	\$83,160	\$103,950	\$121,275

\*Adopted future rates are available on the IEUA website at [www.ieua.org](http://www.ieua.org)



- IEUA wastewater connection fees currently in place do not pay for investments in the regional water system.
- With growth increasing, population is expected to reach **1.2 million within the next 20 years.**
- **\$91 million in expanded and new water infrastructure is needed to support recycled water, regional resiliency and water conservation projects.**
- IEUA has a responsibility to ensure that the regional water system is financially sound.
- **Without the new fee, \$91 million of regional water reliability projects needed to meet growth will be unfunded.**
- **Proposition 26** mandates costs should be reasonable and appropriately allocated to payers based on the benefit received.
- *A comprehensive rate study in 2014 established the proposed fee.*

### ***Inland Empire Utilities Agency Service Area***



**INFORMATION  
ITEM**

**3M**





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Date: November 18, 2015

Through: Engineering, Operations & Biosolids Management Committee (11/11/15)  
Public, Legislative Affairs & Water Resources Committee (11/11/15)

To: The Honorable Board of Directors

From: P. Joseph Grindstaff   
General Manager

Chris Berch   
Executive Manager of Engineering/Assistant General Manager

Submitted by: Sylvie Lee   
Manager of Planning & Environmental Resources

Subject: Annual Recycled Water Report for Fiscal Year 2014/15

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### **RECOMMENDATION**

This is an informational item for the Board of Directors to review.

### **BACKGROUND**

The 2014/15 Recycled Water Annual Report for the Inland Empire Utilities Agency (IEUA) recycled water program provides annual delivery data by IEUA retail member agencies, by usage types, and by customers. The 2014/15 covers the IEUA fiscal year of July 2014 to June 2015. The report also provides summaries of the program history, describes recent construction, and gives an overview of the IEUA treatment plants. The report includes appendices of water quality compliance data for IEUA water recycling plants and lists individual customer uses.

### **PRIOR BOARD ACTION**

None.

### **IMPACT ON BUDGET**

None.



*Inland Empire Utilities Agency*  
**2014/15 RECYCLED WATER**  
**ANNUAL REPORT**

**Water Smart**  
**Thinking in Terms of Tomorrow**



*Inland Empire Utilities Agency*  
A MUNICIPAL WATER DISTRICT

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APPENDIX A	Recycled Water Effluent Monitoring Data
APPENDIX B	Recycled Water Compliance Data
APPENDIX C	Recycled Water Users and Demands



## INTRODUCTION

The 2014/15 Recycled Water Annual Report for the Inland Empire Utilities Agency (IEUA) recycled water program provides annual delivery data by IEUA retail member agencies, by usage type, and by customers. The 2014/15 covers IEUA's fiscal year of July 2014 to June 2015. The report also provides summaries of the program history, describes recent construction, and gives an overview of the IEUA treatment plants. IEUA provides wastewater treatment for its seven member agencies: the Cities of Chino, Chino Hills, Fontana, Montclair, Ontario, Upland and Cucamonga Valley Water District. Recycled water from the treatment process is generated and delivered for use in the IEUA service area to retail water agencies. IEUA owns and operates five wastewater recycling facilities that serve over 850,000 people. Figure 1 shows the IEUA service area, its member agencies, and the locations of IEUA's five treatment plants. Of the five plants, four produce tertiary-treated, Title 22-quality recycled water. The general layout and capacities of the water recycling plants are discussed later in the report. The 2014 recycled water monitoring and compliance data for the five facilities are provided in Appendices A and B.

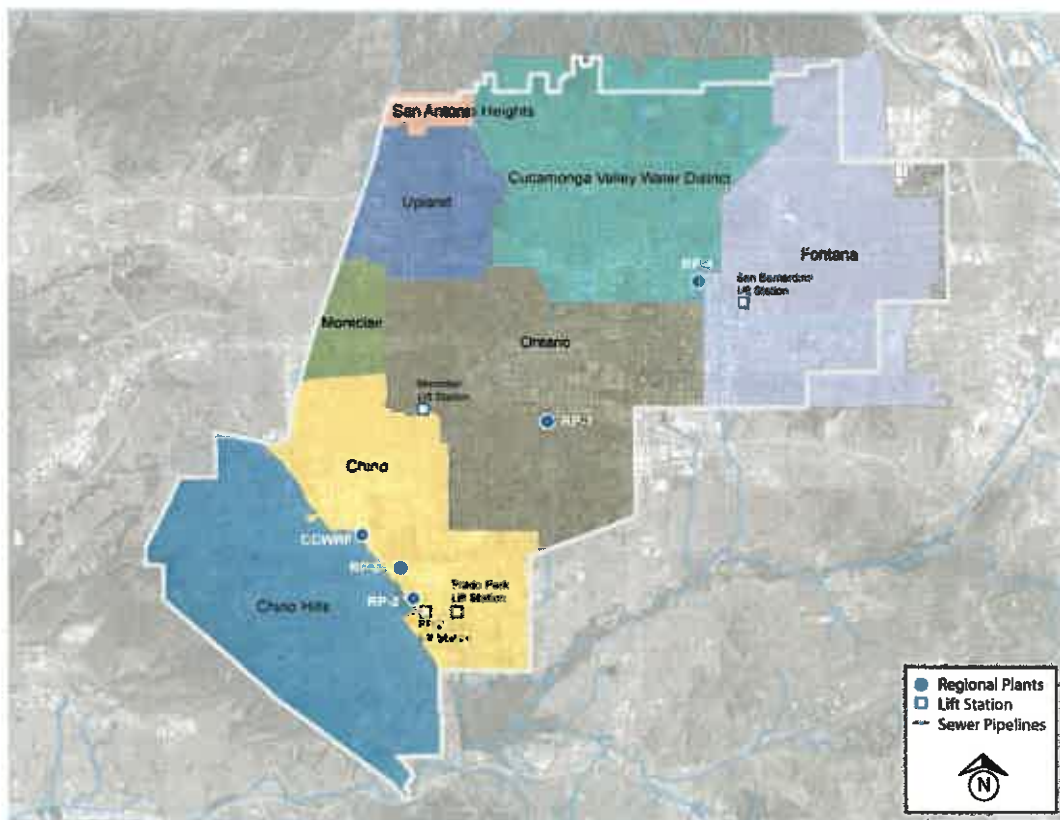
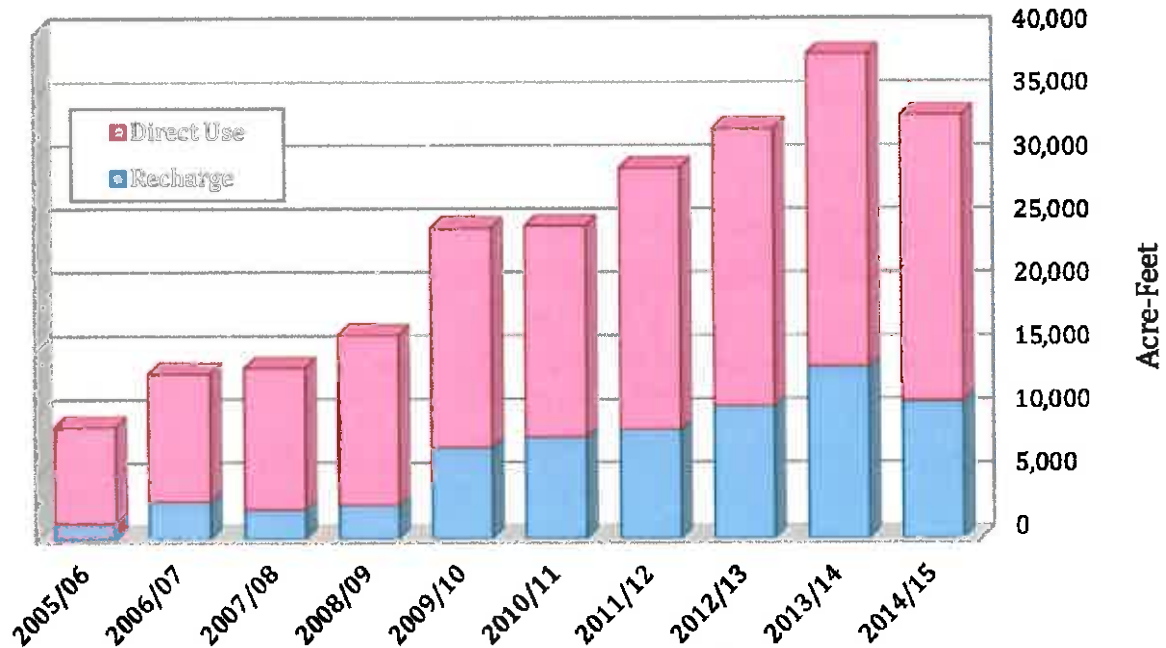


Figure 1 - IEUA Service Area

**DEMANDS**

During the 2014/15, the average recycled water supply from IEUA’s facilities was approximately 50.8 million gallons per day (MGD), or 56,823 acre-feet per year (AFY). Groundwater recharge usage was 10,840 AFY and direct usage was 22,580 AFY. Total recycled water demands during 2014/15 were 33,420 acre-feet (AF), a decrease by 13 percent from the previous fiscal year. Recharge was down 20% and direct use was down 8%. The recycled water delivery volumes of direct use and groundwater recharge can vary seasonally and annually based on a variety of factors (e.g. the rainfall intensity, rainfall duration, and recharge basin maintenance activities). Figure 2 shows IEUA’s historical direct use and groundwater recharge of recycled water for the past 10 years.

Recycled water demands for direct use and recharge purposes were approximately 59 percent of the available supply. During the peak summer months (July through September), the recycled water demand was 81 to 84 percent of the available supply.



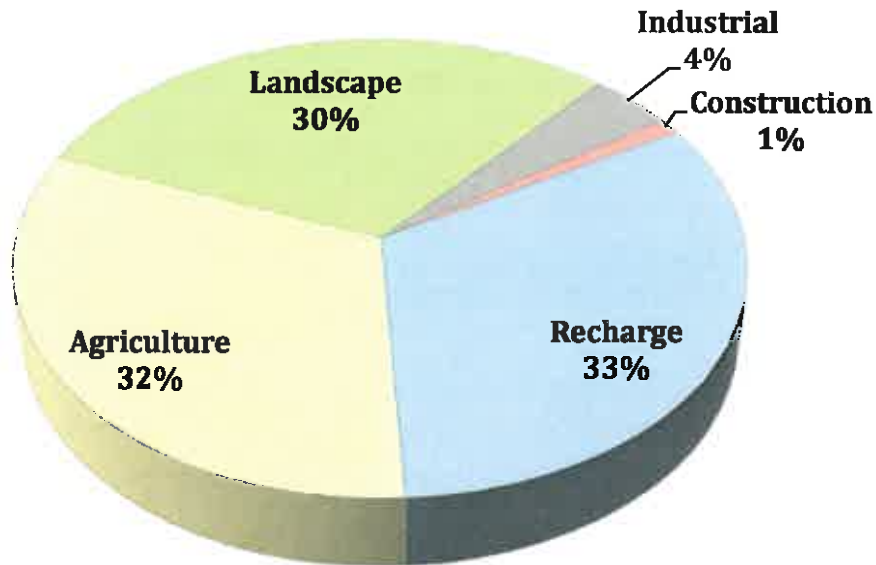
**Figure 2 - Annual Direct Use and Groundwater Recharge**

**USE TYPE DEMANDS**

Delivered recycled water was beneficially reused for a variety of applications including landscape irrigation, agricultural irrigation, industrial process water, groundwater recharge and construction. Table 1 and Figure 3 show the 2014/15 recycled water demand by use type.

**Table 1 - Recycled Water Demand by Use Type**

Type of Use	2014/15 Demand (AF)	Percent of Demand
Recharge	10,840	32%
Agriculture	10,675	32%
Landscape	10,161	30%
Industrial	1,360	4%
Construction	383	1%
<b>Total Demand</b>	<b>33,420</b>	<b>100%</b>



**Figure 3 - Recycled Water Demand by Use Type**

## RETAIL DEMANDS

IEUA is the wholesale recycled water provider to its member agencies, who in turn are the retail agencies that directly serve its customers. IEUA member agencies which served recycled water in 2014/15 include:

- City of Chino,
- City of Chino Hills,
- City of Ontario,
- Cucamonga Valley Water District (CVWD),
- Monte Vista Water District (MVWD), and
- City of Upland

Monte Vista Water District (MVWD) and Fontana Water Company (FWC) are the water retailers in the Cities of Montclair and Fontana, respectively, but are not IEUA member agencies. MVWD and FWC obtain and retail recycled water from their overlying Cities which are IEUA member agencies. San Bernardino County is currently a direct customer of IEUA based on long standing historical contracts.

Table 2 and Figure 4 show the recycled water demand by IEUA retail agency. Each retail agency's total includes direct use and an allocation for recycled water groundwater recharge based on IEUA's Regional Sewage Service Contract. Jurupa Community Services District (JCSD), located directly south of Fontana, is not an IEUA member agency yet will receive a recycled water groundwater recharge allocation through 2025 based on a historical agreement between IEUA and JCSD.

**Table 2 - Recycled Water Demand by Retail Agency**

Retail Agency	Direct Use (AF)	Recharge Allocation (AF)	Agency Total (AF)	Percent of Demand
Chino	8,324	1,076	9,400	28%
Ontario	8,018	2,222	10,240	31%
Chino Hills	1,827	912	2,739	8%
CVWD	1,400	2,405	3,805	11%
San Bernardino County	1,371	0	1,371	4%
IEUA	695	0	695	2%
Upland	636	1,007	1,643	5%
Montclair/MVWD	308	468	776	2%
Fontana/FWC	0	1,927	1,927	6%
JCSD	0	823	823	2%
<b>Subtotal</b>	<b>22,580</b>	<b>10,840</b>	<b>33,420</b>	<b>100%</b>

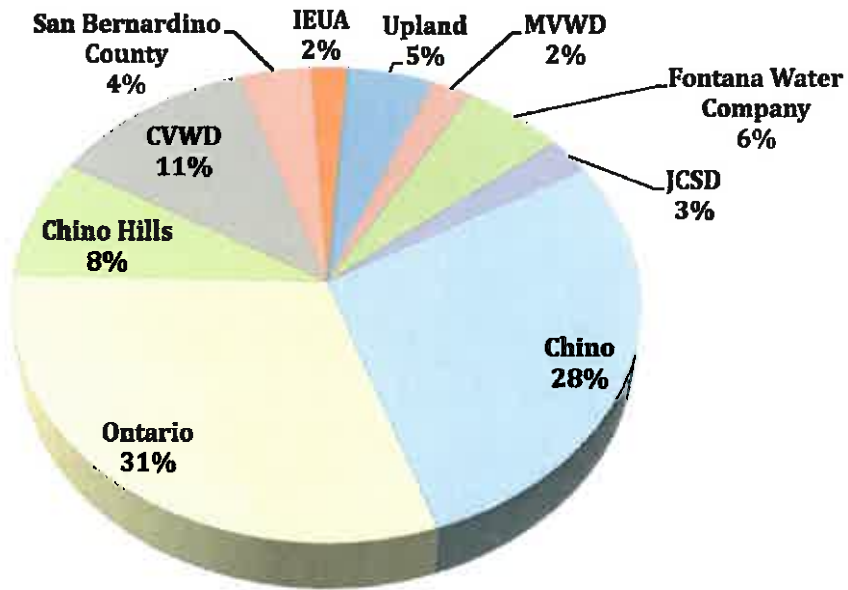


Figure 4 - Recycled Water Demand by Retail Agency

**CUSTOMERS DEMANDS**

Appendix C lists the recycled water direct use customers for each retail agency and their demands for the fiscal year. Table 3 lists the top ten largest direct reuse customer sites for the fiscal year (excluding groundwater recharge sites). During 2014/15, forty new connections were made to the recycled water system with a total new demand estimated at 855 AFY. Connected new demand is the anticipated annual usage based on land size and previous potable water usage history.

Table 3 - Top 10 Recycled Water Customers for 2014/15

Customer	Use (AF)	Type of Use	Retailer
Lewis Farms	1,338	Agriculture	Ontario
Weststeyn Dairy	898	Agriculture	Chino
El Prado Park	879	Landscape	San Bernardino County
Cal Poly Pomona	832	Agriculture	Chino
Cleveland Farm	793	Agriculture	Ontario
New Indy Ontario	774	Industrial	Ontario
CW Farms	736	Agriculture	Chino
Nyenhius Dairy	701	Agriculture	Chino
Murai Farm	689	Agriculture	Ontario
Whispering Lakes Golf Course	661	Landscape	Ontario
Cleveland Farm	308	Agriculture	Chino
<b>Subtotal</b>	<b>8,609</b>		

### **ECONOMIC AND ENVIRONMENTAL IMPACTS**

The 33,420 AF of recycled water used during the fiscal year is the equivalent of the water supply for roughly 66,840 homes. The use of locally produced recycled water reduces the need to pump State Water Project water over the Tehachapi Mountains, an equivalent net energy demand reduction of 2,657 kilowatt-hours (kWh) per AF, and an overall reduction of approximately 79 percent in carbon dioxide emissions.

IEUA's wholesale recycled water rate to its member agencies for 2014/15 was \$350/AF for direct usage and \$410/AF for recharge. Table 4 lists the IEUA retail agencies' recycled water rates in 2014/15.

### **HISTORY**

Early water recycling efforts in the 1970s by IEUA involved irrigation at the Whispering Lakes Golf Course adjacent to RP-1 in Ontario and at the El Prado Park and Golf Course in Chino. In the 1980s, recycled water continued to be an integral part of IEUA planning with implementation of the CCWRF and RP-4. These two recycling plants were sited specifically at higher elevations to reduce recycled water pumping costs. A backbone recycled water distribution system was installed in Chino and Chino Hills from CCWRF in 1997 and was initially operated by IEUA under Ordinance No. 63. This system was later turned over to the City of Chino and the City of Chino Hills and forms the core of the recycled water distribution network operated by these two cities.

The first major regional pipeline was constructed in 1995 and served the dual purpose of a regional recycled water distribution pipeline and an outfall allowing RP-4 effluent to be discharged with RP-1 effluent in Cucamonga Creek. The RP-4 outfall was designed as a pressurized system so that water could be pumped up from RP-1 to RP-4 as well as flow down in the opposite direction from RP-4 to RP-1 and the creek outfall.

In 1999, IEUA began groundwater recharge with recycled water at Ely Basin. The initial Ely Basin project was followed by the Chino Basin Watermaster's (CBWM) development of the Optimum Basin Management Program (OBMP) and the region's efforts (including IEUA's) to implement the OBMP.

In 2000, the OBMP identified recycled water use as a critical component in drought-proofing and maintaining the region's economic growth. With imported water rates increasing and long-term supply reliability declining, the region committed to aggressively and proactively address regional impacts. The OBMP set the path for the development of a regional recycled water distribution system and a Recycled Water Implementation Plan.



**Table 4 – Retail Agency Water Rates for 2014/15**

Inland Empire Utilities Agency				
Source	Usage Type	Usage (AF)	FY 2014/15 Rate	
Potable Water	Tier 1 Full Service Untreated	AF	\$582+\$15 Surcharge= \$597 per AF	
Recycled Water	Direct Delivery	AF	\$350.00 per AF	
	Groundwater Recharge	AF	\$410.00 per AF	

City of Chino			
Source	Usage Type	Usage (HCF)	FY 2014/15 Rate
Potable Water	Flat Rate	1	\$1.77
Recycled Water	Non-Agricultural	1	\$1.24
	Agricultural	1	\$0.62

City of Chino Hills				
Source	Zone	Single Family Usage (HCF)	Multi-family Usage (HCF)	FY 2014/15 Rate
Potable Water:	Low	Tier 1 (0-12)	Tier 1 (0-7)	\$2.28
		Tier 2 (13-30)	Tier 2 (8-20)	\$2.60
		Tier 3 (>30)	Tier 3 (>21)	\$3.64
	Intermediate	Tier 1 (0-12)	Tier 1 (0-7)	\$2.47
		Tier 2 (13-30)	Tier 2 (8-20)	\$2.79
		Tier 3 (>30)	Tier 3 (>21)	\$3.83
	High	Tier 1 (0-12)	Tier 1 (0-7)	\$2.76
		Tier 2 (13-30)	Tier 2 (8-20)	\$3.09
		Tier 3 (>30)	Tier 3 (>21)	\$4.12
Recycled Water	Low	Flat Rate		\$1.91
	Intermediate			\$2.04
	High			\$2.25
	Temporary			\$2.31

City of Ontario		
Source	Usage (HCF)	FY 2014/15 Rate
Potable Water	0-15	\$2.34
	>15	\$2.72
Recycled Water	Flat Rate	\$1.56

CVWD			
Source	Stage	Usage (HCF)	FY 2014/15 Rate
Potable Water	Non-drought	Tier 1 (0-10)	\$1.59
		Tier 2 (11-40)	\$2.11
		Tier 3 (41-100)	\$2.62
		Tier 4 (>100)	\$2.99
Recycled Water		Flat Rate	\$1.53

MVWD				
Source	Usage Type	Tier	Usage (HCF)	FY 2014/15 Rate
Potable Water	Residential	Tier 1	Allocation	\$1.76
		Tier 2	Allocation	\$2.25
		Tier 3	Allocation	\$3.44
		Tier 4	Allocation	\$6.30
	Non-residential	Domestic Water	Flat Rate	\$2.18
Recycled Water	Non-residential	Recycled Water	Flat Rate	\$1.64

Fontana Water Company			
Source	Usage Type	Usage (HCF)	FY 2014/15 Rate
Potable Water	Conservation Rates	Tier 1 (0-16)	\$2.50
		Tier 2 (>16)	\$2.88
	General Rate	1	\$2.72
Recycled Water		Flat Rate	\$2.04

City of Upland				
Source	Usage Type	Usage (HCF)	FY 2014/15 Rate	
Potable Water	Single Family Residential Rate	Tier 1 (0-20)	\$1.36	
		Tier 2 (21-50)	\$1.61	
		Tier 3 (>50)	\$2.21	
	Multi-Family Residential Rate	Flat Rate		\$1.67
		Rates for Other Classes	Landscape:	\$1.92
			Commercial:	Flat Rate
	Schools:		\$1.88	
		Public Agencies:	\$1.78	
	Recycled Water		Flat Rate	\$1.45

The use of recycled water presented several advantages to IEUA and its member agencies: it is one of the most significant unused local water supplies; it is reliable during drought and climate change conditions; and it requires significantly less energy than imported water to deliver to customers thus reduces greenhouse gas emissions. IEUA in partnership with its member agencies and Chino Basin Watermaster (CBWM) invested approximately \$625 million over the last fifteen years to increase the availability of local water supplies through water recycling, conservation, recharge improvements, the MWD groundwater storage and recovery project, the Chino Desalter, and other water management programs.

In 2002, IEUA Board of Directors adopted Ordinance No. 75, the Mandatory Use Ordinance, to establish incentives and encourage recycled water use from the regional distributions system. Also in 2002, the CBWM, Chino Basin Water Conservation District (CBWCD), San Bernardino County Flood Control District (SBCFCD) and IEUA joined forces to greatly expand groundwater recharge capacity through the Chino Basin Facilities Improvement Program.

In 2005, IEUA was permitted by the Regional Water Quality Control Board to operate its recycled water groundwater recharge programs at five additional recharge basins (Banana, Hickory, Etiwanda Conservation Ponds, Declez, RP3, and Turner basins). In 2007, IEUA was permitted to operate its recycled water groundwater recharge program at seven more recharge sites (Brooks, 8<sup>th</sup> Street, Victoria, Lower Day, San Sevaine, Etiwanda Spreading Grounds (later reconfigured as the Etiwanda Debris Basin) and Ely Basins. The 2007 permit was amended in 2009 to modify how IEUA tracks diluent water and recycled water blending, which effectively increase IEUA's ability to recharge using recycled water.

In November 2007, IEUA and its member agencies unanimously adopted the Three Year Recycled Water Business Plan. IEUA and its member agencies committed to implementing the plan, which laid out a focused and cost-effective approach to rapidly increase the availability and use of recycled water within IEUA's service area.

Based on the series of regional decisions over the last fifteen years, over \$250 million was invested into the implementation of a robust Recycled Water Program. The region has achieved program success by leveraging heavily on grant funding and loans. With unanimous regional support, annual recycled water use grew from approximately 5,000 AF in 2004/05 to 33,420 AF in 2014/15. The program maximum use was in FY 2013/14 and totaled 38,251 AF.



### RECYCLED WATER CAPITAL PROGRAM

The IEUA currently produces over 50 MGD of recycled water, and there are several projects under way to expand the use of recycled water within its service area. Table 5 lists the 2014/15 capital projects and their locations. The projects that were in design or construction during 2014/15 are summarized in the following paragraphs.

**Table 5 - Capital Project Summary for 2014/15**

Projects in Design/Construction	Engineering Budget	Total Grants	Total Loans	FY14/15 Expenses
Turner Basin	\$ 2,899,411	\$ 406,712	\$ 0	\$ 181,350
Southern Area Projects	\$ 37,085,183	\$ 4,000,000	\$ 26,608,638	\$ 8,823,893
Wineville RW Pipeline	\$ 32,481,763	\$ 5,000,000	\$ 26,500,000	\$ 21,292,027
San Sevaine	\$ 6,460,000	\$ 750,000	\$ 0	\$ 128,091
<b>Subtotal</b>	<b>\$ 78,926,357</b>	<b>\$ 10,156,712</b>	<b>\$ 53,108,638</b>	<b>\$ 30,425,361</b>

#### PROJECTS COMPLETED

Southern Area Recycled Water Projects includes a recycled water pipeline and a 5-million gallon reservoir in the 930 pressure zone primarily serving the cities of Chino, and Chino Hills. The 930 Recycled Water Pipeline project consists of a feeder pipeline approximately 12,500 feet in total length from the 930 Recycled Water Reservoir connecting to regional pipeline located at the northwest quadrant of the San Antonio Channel crossing of Chino Hills Parkway. Work at Turner Basin in Ontario completed a recycled water turnout at Turner 1, which increases the delivery capacity to that site coupled with the expansion in area of Turner 4.

#### PROJECTS IN CONSTRUCTION

Central Area Recycled Water Project includes Wineville Recycled Water Pipeline Extension and Groundwater Recharge & Recycled Water SCADA System Upgrades. The Wineville Extension Recycled Water Pipeline includes 4.6 miles of 36 inch pipe as part of the regional recycled water distribution system in the southern part of the City of Fontana and the eastern part of the City of Ontario. The pipeline will allow for the connection of commercial, industrial customers, parks and schools within the cities of Ontario and Fontana and also utilize RP-3 and Declez Basins for recharge. The project would beneficially increase recycled water use between 3,000 to 4,500 AFY. The Wineville Pipeline construction completion is anticipated in November 2015.

## **PROJECTS IN DESIGN**

The Groundwater Recharge & Recycled Water SCADA System Upgrades - A new communication network backbone for the Agency has just been installed. This project is required to bring groundwater recharge and recycled water facilities onto the new agency communication backbone. The current system is overloaded and the groundwater and recycled water sites need to be transitioned to the new system. This project will also transition the RP-5 recycled water Pump Station SCADA system to Rockwell Automation and onto the recycled water SCADA system. The scope for this project includes radio path surveys for the groundwater recharge and recycled water stations, procurement, installation and programming of new hardware and software. The SCADA Upgrades final design phase completion is anticipated in early October 2015. San Sevaire Basin 5 was reviewed for needed infiltration improvement projects and was determined that extending the recycled water pipeline from basin 5 to basins 1, 2, and 3 was needed. A preliminary design report for the extension was in process during FY14/15.

## **FUTURE REUSE PROJECTS**

IEUA and its member agencies desire to increase the use of recycled water within IEUA's boundary. By committing to the Three Year Business Plan, the implementation of recycled water projects will be coordinated with all agencies within the Chino Basin area. Coordination will increase the development of recycled water delivery and increase the reliability of potable supplies for residents and customers. Future recycled water projects will allow IEUA and its member agencies to continue to provide a reliable water supply to its customers when multiple years shortages of imported supplies occur.

Future projects include the Napa Lateral, which will include over 9,000 linear feet of recycled water pipe in Fontana for use in landscape irrigation and industrial cooling process, and the Recycled Water Pressure Sustaining Valve Installation for agricultural users in Ontario and Chino, which will assist in maintaining southern zone system pressure during peak demand.

The Agency is currently in the process of updating its various planning documents, including the Recycled Water Program Strategy (RWPS) and the Integrated Water Resource Plan (IRP). As a result, recycled water projects will be prioritized and implemented at the completion and approval of the IRP and RWPS. The RWPS was completed in March 2015. The near term projects identified in the RWPS are RP-1 1158 Pump Station Upgrades, RP-5 Recycled Water Pipeline Bottleneck, 930 to 800 West CCWRF Pressure Reducing Valve, and 2,300 linear feet of a 42-inch 930 Zone parallel pipeline between RP-1 and Riverside Drive in Ontario.

## TREATMENT PLANTS

IEUA owns and operates five regional water recycling facilities: RP-1, RP-2, RP-4, RP-5, and CCWRF. Of the treatment plants, RP-2 does not have any liquid treatment processes, and as such does not produce any recycled water. The combined treatment capacity of the remaining four plants is approximately 85 MGD.

### ***Regional Water Recycling Plant No. 1***

RP-1 is located in the city of Ontario and has been in operation since 1948. The plant has undergone several expansions to increase the design hydraulic domestic sewage (wastewater) treatment capacity to 44 million gallons per day. The plant serves areas of Chino, Fontana, Montclair, Ontario, Rancho Cucamonga, Upland, and solids removed from RP-4, located in Rancho Cucamonga. The plant treats an average influent wastewater flow of approximately 28 million gallons per day. The plant is divided into two separate treatment sections: liquids and solids.

The liquid treatment section consists of preliminary screening and grit removal, primary clarification, secondary treatment by aeration basins and clarification, tertiary treatment by filtration and disinfection, and dechlorination. Wastewater liquid is treated to California Department of Public Health Title 22 Code of Regulations standards for disinfected tertiary recycled water. The solids treatment section begins with thickening the solids removed from the primary and secondary clarification processes. The thickened solids are pumped to anaerobic digestion and then to the centrifuges for dewatering. Wastewater solids are digested to a minimum Class B biosolids standard, as defined by the United States Environmental Protection Agency Code of Federal Regulations. After dewatering, the biosolids are hauled to the Inland Empire Regional Composting Facility in the City of Rancho Cucamonga for further treatment to produce Class A compost. Figure 5 illustrates the RP-1 treatment processes.

### ***Regional Water Recycling Plant No. 1***

Plant Capacity:	44.0 MGD
2014/15 Influent Flow:	25.8 MGD
2014/15 RW Delivery:	15.7 MGD
2014/15 Creek Discharge:	12.5 MGD*

*\*RP-1 and RP-4 have a combined effluent outfall; therefore, creek discharge reported for RP-1 is for both plants combined.*



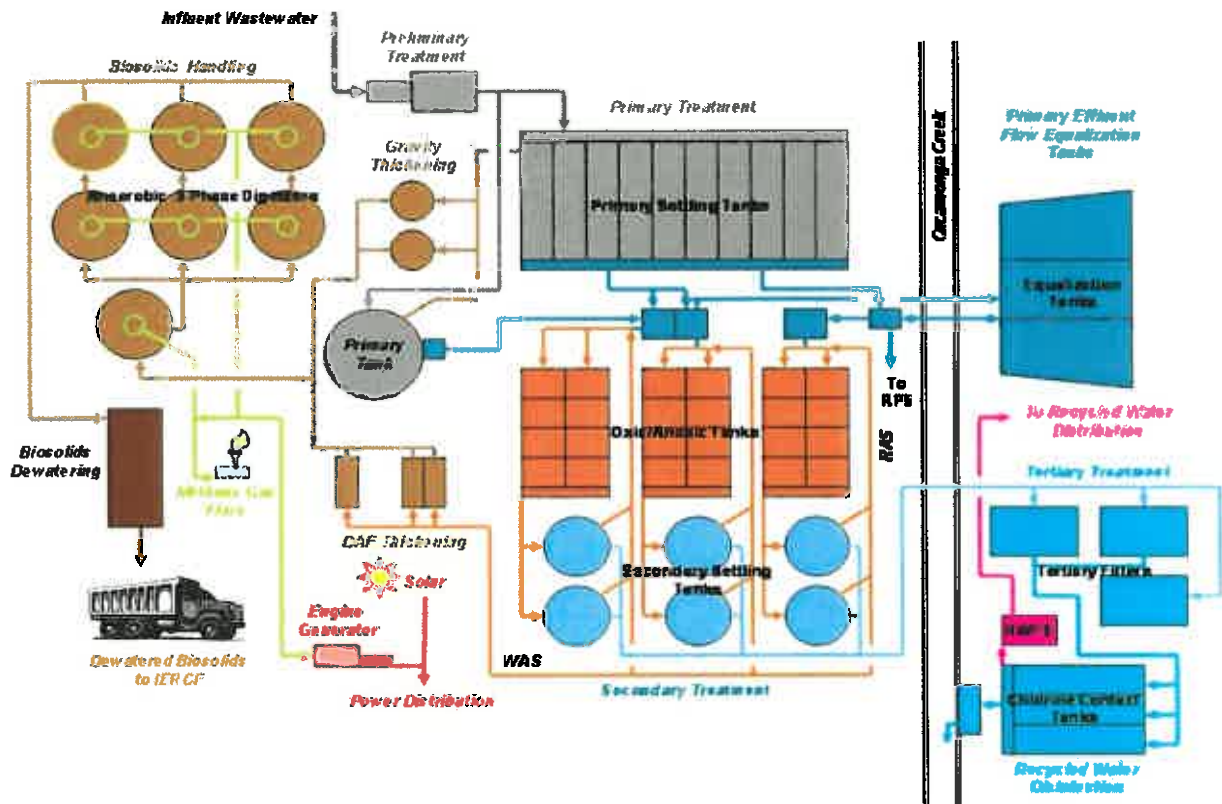


Figure 5 - RP-1 Treatment Process

**Regional Water Recycling Plant No. 4**

RP-4 is located in the city of Rancho Cucamonga and has been in operation since 1997. The plant has undergone an expansion to increase the design hydraulic domestic sewage (wastewater) treatment capacity to 14 million gallons per day. The plant serves areas of Fontana, Rancho Cucamonga, and San Bernardino County. The plant treats the liquid portion of an average influent wastewater flow of approximately 10 million gallons per day.

The liquid treatment section consists of preliminary screening and grit removal, primary clarification, secondary treatment by aeration basins and clarification, and tertiary treatment by filtration and disinfection. Wastewater liquid is treated to California Department of Public Health Title 22 Code of Regulations standards for disinfected tertiary recycled water. The solids removed from RP-4 are conveyed by gravity through the regional sewer system to the influent of RP-1 for thickening, anaerobic digestion, and dewatering. Figure 6 illustrates the RP-4 treatment process. Tertiary water from RP-4 that is not utilized for direct sales or groundwater recharge is discharged to Cucamonga Creek at RP-1.

**Regional Water Recycling Plant No. 4**

Plant Capacity:	14.0 MGD
2014/15 Influent Flow:	9.8 MGD
2014/15 RW Delivery:	8.6 MGD
2014/15 Creek Discharge:	0.0 MGD*

*\*RP-1 and RP-4 have a combined effluent outfall; therefore, creek discharge reported for RP-1 is for both plants combined.*





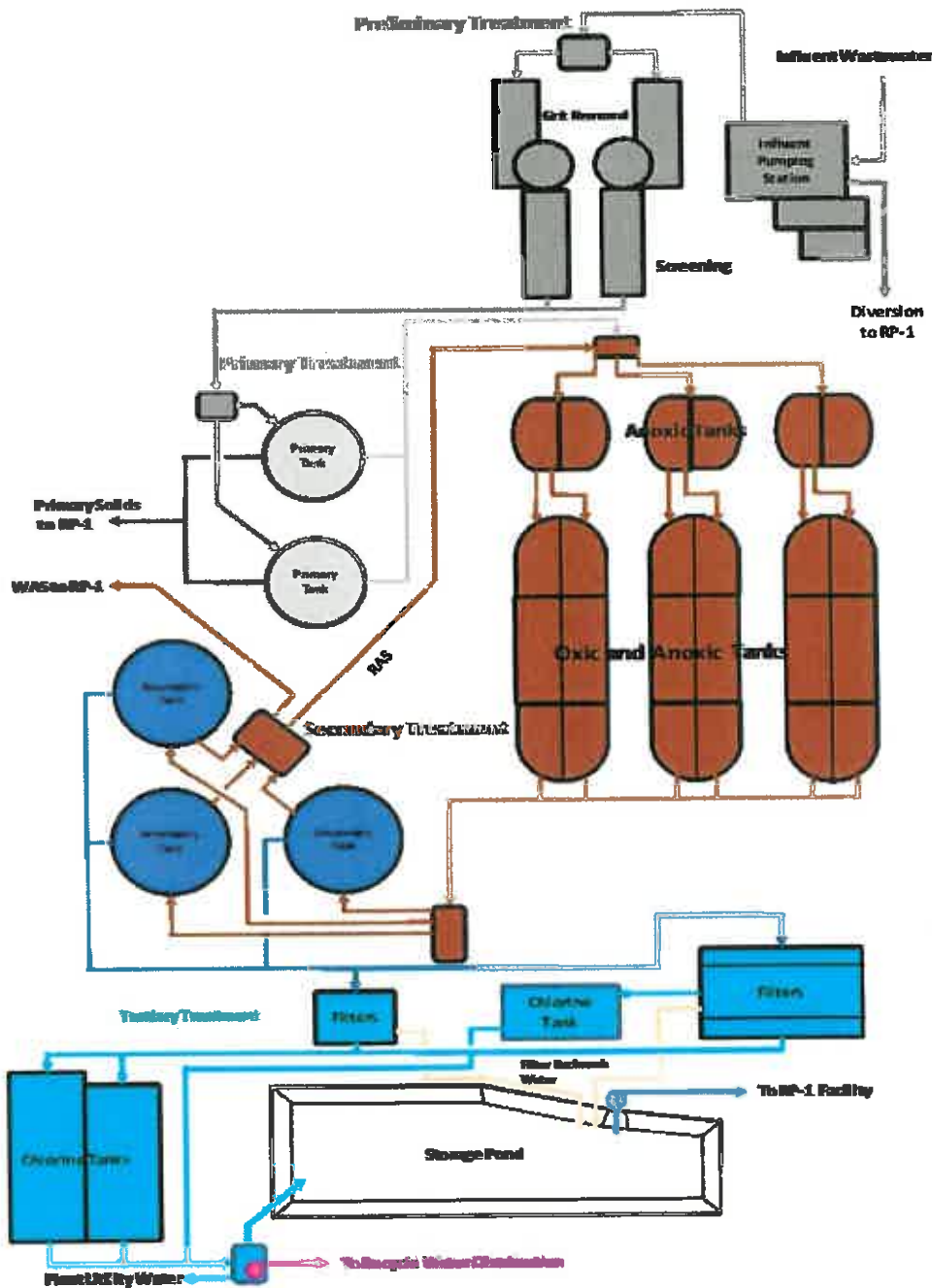



Figure 6 - RP-4 Treatment Process

***Carbon Canyon Water Recycling Facility***

CCWRF is located in the city of Chino and has been in operation since 1992. The design hydraulic domestic sewage (wastewater) treatment capacity was 11.4 million gallons per day until April 2014 when the facility’s design capacity was re-rated based on an updated filter loading rate, which removed the tertiary filters as the bottleneck in the plant. The re-rating increased the plant capacity to 12.0 MGD. The updated capacity will be included in the 2015 NPDES permit renewal. The plant serves areas of Chino, Chino Hills, Montclair and Upland. The plant treats the liquid portion of an average influent wastewater flow of approximately 7 million gallons per day.

The liquid treatment section consists of preliminary screening and grit removal, primary clarification, secondary treatment by aeration basins and clarification, tertiary treatment by filtration and disinfection, and dechlorination. Wastewater liquid is treated to California Department of Public Health Title 22 Code of Regulations standards for disinfected tertiary recycled water. The solids removed from CCWRF are pumped to RP-2 for thickening, anaerobic digestion, and dewatering. Figure 7 illustrates the CCWRF treatment process.

<b><i>Carbon Canyon Water Recycling Facility</i></b>		
Plant Capacity:	12.0 MGD	
2014/15 Influent Flow:	7.1 MGD	
2014/15 RW Delivery:	3.0 MGD	
2014/15 Creek Discharge:	3.5 MGD	

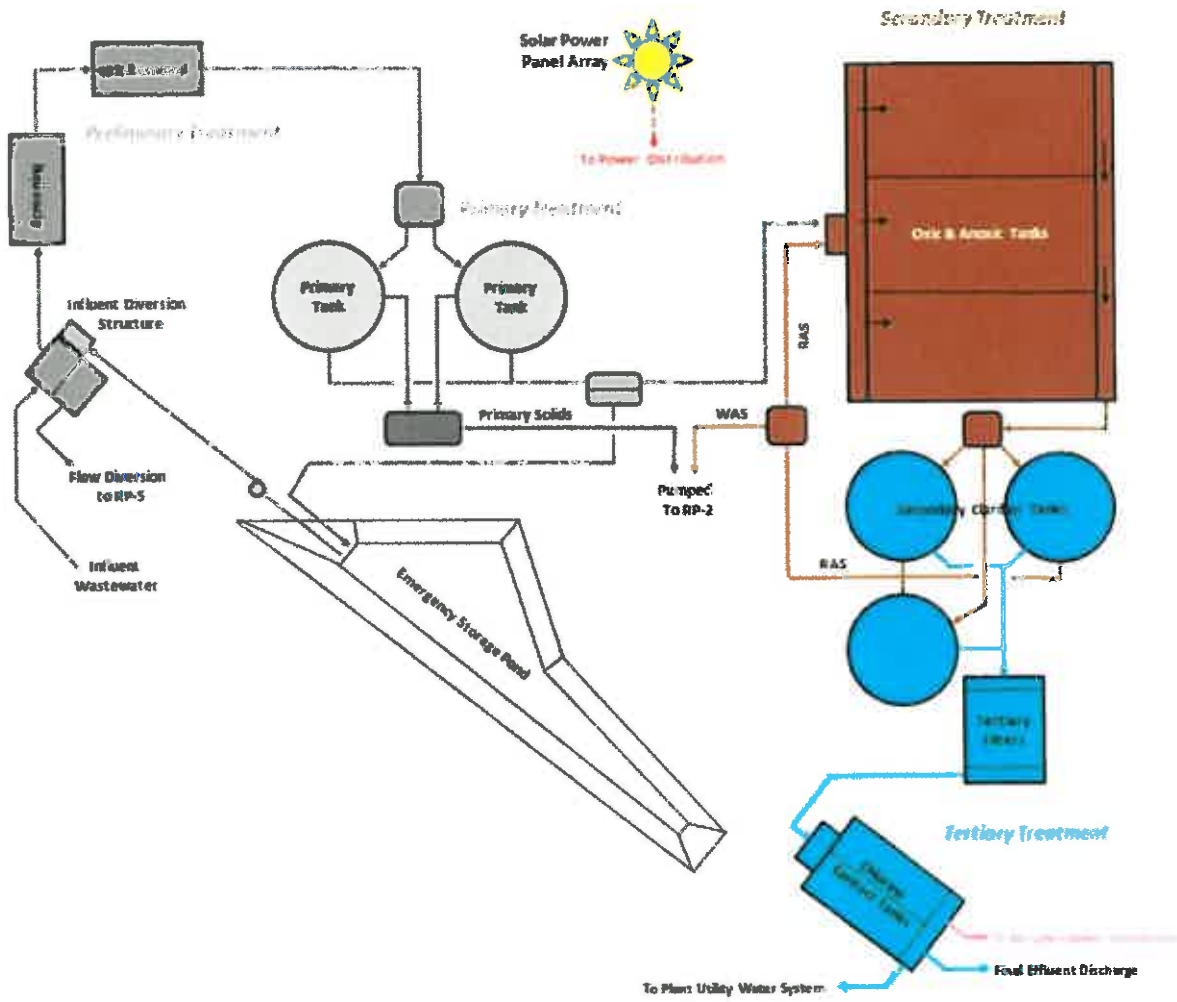


Figure 7 - CCWRF Treatment Process



**Regional Water Recycling Plant No. 5**

RP-5 is located in the city of Chino and has been in operation since 2004. The design hydraulic domestic sewage (wastewater) treatment capacity is 16.3 million gallons per day, which includes 1.3 million gallons per day of solids processing returned from RP-2. The plant serves areas of Chino, Chino Hills, and Ontario. The plant treats the liquid portion of an average influent wastewater flow, including RP-2 returned flow, of approximately 9 million gallons per day.

The liquid treatment section consists of preliminary screening and grit removal, primary clarification, secondary treatment by aeration basins and clarification, tertiary treatment by filtration and disinfection, and dechlorination. Wastewater liquid is treated to California Department of Public Health Title 22 Code of Regulations standards for disinfected tertiary recycled water. The solids removed from RP-5 are pumped to RP-2 for thickening, anaerobic digestion, and dewatering. Figure 8 illustrates the RP-5 treatment process.

**Regional Water Recycling Plant No. 5**

Plant Capacity:	15.0 MGD
2014/15 Influent Flow:	8.0 MGD
2014/15 RW Delivery:	3.3 MGD
2014/15 Creek Discharge:	3.5 MGD



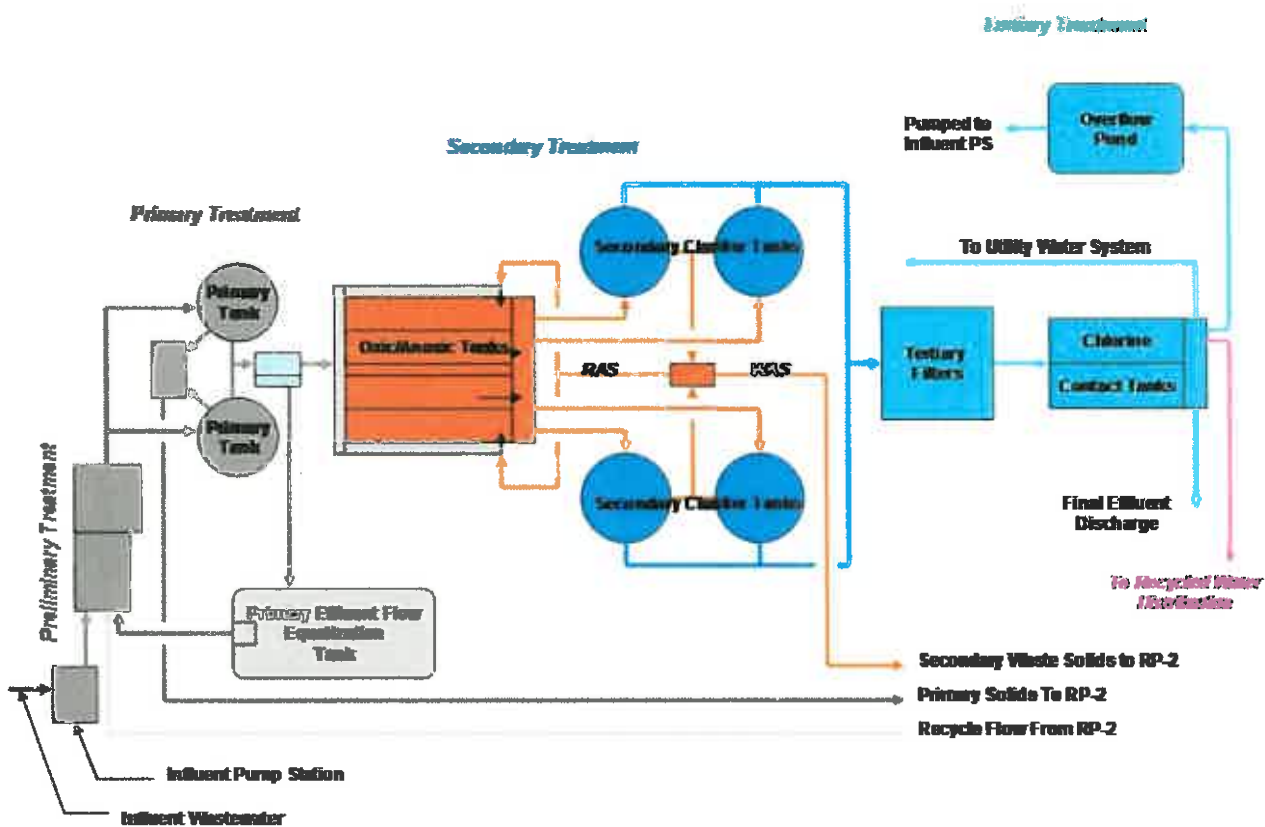


Figure 8 - RP-5 Treatment Process

# **APPENDIX A**

## **RECYCLED WATER**

### **EFFLUENT MONITORING DATA**

Inland Empire Utilities Agency  
Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2014 NPDES Annual Report

Table No. 3a

**RP-1 (M-001A\* & M-001B) Effluent Monitoring Data**

Date	Flow			EC			pH			BOD <sub>5</sub>			TSS			TOC			TDS			TIN			TN			NH <sub>3</sub> -N (grab)											
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max						
Limit>>>	MGD			µmhos/cm			unit			mg/L			%			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L					
	2.4-3.9			755-839			6.5-8.5			20			15			20			15			20			15			20			15			20			15		
Jan-14	3.0	2.4	3.9	801	755	839	7.1	6.6	7.3	<2	<2	3	0.4	<2	<2	<2	<2	5.9	5.4	6.3	525	510	542	7.3	6.1	9.8	8.2	7.0	11.0	<0.1	<0.1	<0.1							
Feb-14	3.6	2.0	3.9	829	806	848	7.1	6.8	7.2	<2	<2	<2	0.4	<2	<2	<2	<2	5.7	5.2	6.1	524	506	544	7.4	6.7	8.5	8.1	7.9	8.2	<0.1	<0.1	<0.1							
Mar-14	2.8	0.0	3.4	838	791	890	7.1	6.8	7.3	<2	<2	<2	0.4	<2	<2	<2	<2	6.0	5.2	6.5	504	472	520	6.9	3.9	8.9	7.1	4.8	8.4	<0.1	<0.1	<0.1							
Apr-14	2.6	1.2	3.6	861	805	908	7.2	7.0	7.8	<2	<2	<2	0.4	<2	<2	<2	<2	5.6	5.3	6.0	529	500	544	5.4	4.3	6.4	6.1	5.5	6.9	<0.1	<0.1	<0.1							
May-14	2.1	0.0	3.7	847	807	911	7.2	6.8	7.4	<2	<2	<2	0.4	<2	<2	<2	<2	5.5	5.1	6.2	557	542	578	5.6	4.7	6.6	6.8	5.8	7.6	<0.1	<0.1	<0.1							
Jun-14	1.7	0.0	2.0	842	809	911	7.3	7.0	8.0	<2	<2	<2	0.4	<2	<2	<2	<2	5.2	4.8	5.8	539	526	560	4.2	3.4	5.1	5.3	4.3	6.0	<0.1	<0.1	<0.1							
Jul-14	1.8	0.0	2.9	836	797	876	7.4	6.9	8.4	<2	<2	<2	0.4	<2	<2	<2	<2	5.5	5.0	6.2	524	508	544	3.5	2.3	4.6	4.5	3.7	5.7	<0.1	<0.1	<0.1							
Aug-14	2.8	0.5	4.4	843	810	877	7.4	6.9	7.8	<2	<2	<2	0.5	<2	<2	<2	<2	5.5	5.1	6.3	529	522	532	3.1	2.0	4.7	3.3	3.1	3.5	<0.1	<0.1	<0.1							
Sep-14	2.5	0.8	4.4	864	832	899	7.3	7.2	7.5	<2	<2	<2	0.6	<2	<2	<2	<2	5.4	5.0	5.8	560	510	644	3.9	2.2	6.2	4.1	2.8	5.5	<0.1	<0.1	<0.1							
Oct-14	3.0	0.7	4.3	862	838	889	7.3	6.7	7.6	<2	<2	<2	0.5	<2	<2	<2	<2	5.3	5.1	5.5	558	538	578	5.2	3.6	6.8	6.2	5.5	6.6	<0.1	<0.1	<0.1							
Nov-14	1.9	0.0	4.7	968	852	1,088	7.2	6.8	7.5	<2	<2	<2	0.5	<2	<2	<2	<2	6.0	5.6	6.3	602	598	606	6.7	4.8	8.9	8.1	6.6	9.7	<0.1	<0.1	<0.1							
Dec-14	1.6	0.0	3.4	820	637	978	7.1	6.5	7.5	<2	<2	<2	0.5	<2	<2	<2	<2	5.6	5.2	6.3	558	536	572	7.6	6.2	9.2	8.9	8.6	9.3	<0.1	<0.1	<0.1							
Avg	2.4	0.6	3.7	851	795	910	7.2	6.8	7.6	<2	<2	<2	0.5	<2	<2	<2	<2	5.6	5.2	6.1	542	522	564	5.6	4.2	7.1	6.0	5.0	6.9	<0.1	<0.1	<0.1							
Min	1.6	0.0	2.0	801	637	839	7.1	6.5	7.2	<2	<2	<2	0.4	<2	<2	<2	<2	5.2	4.8	5.5	504	472	520	3.1	2.0	4.6	3.3	2.8	3.5	<0.1	<0.1	<0.1							
Max	3.6	2.4	4.7	968	852	1,088	7.4	7.2	8.4	<2	<2	<2	0.6	<2	<2	<2	<2	6.0	5.6	6.5	602	598	644	7.6	6.7	9.8	8.2	7.9	11.0	<0.1	<0.1	<0.1							

\*M-001A is the compliance point for continuous monitoring parameters, TDS, and toxicity.

Table No. 3b

**RP-1/RP-4 (M-002A) Effluent Monitoring Data**

Date	Flow			EC			pH			BOD <sub>5</sub>			TSS			TOC			TDS			TIN			TN			NH <sub>3</sub> -N (grab)											
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max						
Limit>>>	MGD			µmhos/cm			unit			mg/L			%			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L			mg/L					
	1.8-16.6			809-903			6.5-8.5			20			15			20			15			20			15			20			15			20			15		
Jan-14	7.7	1.8	16.6	854	809	903	7.1	6.9	7.3	<2	<2	2	0.5	<2	<2	<2	<2	5.6	5.2	5.9	519	496	528	6.5	4.2	9.5	9.9	9.9	9.9	<0.1	<0.1	0.1							
Feb-14	12.1	3.0	34.5	863	833	906	7.1	6.9	7.2	<2	<2	<2	0.4	<2	<2	<2	<2	5.5	5.0	5.8	511	478	534	6.7	5.1	9.0	9.1	8.4	9.9	<0.1	<0.1	<0.1							
Mar-14	15.0	4.0	38.5	845	810	872	7.2	6.8	7.5	<2	<2	<2	0.4	<2	<2	<2	<2	5.7	4.9	6.2	498	468	516	6.0	3.5	7.5	6.5	4.6	7.2	<0.1	<0.1	<0.1							
Apr-14	5.4	1.0	15.2	872	825	925	7.2	6.9	7.3	<2	<2	<2	0.4	<2	<2	<2	<2	5.3	4.9	5.8	516	494	538	5.0	3.0	6.7	6.8	6.8	6.8	<0.1	<0.1	<0.1							
May-14	2.4	0.3	13.6	895	840	962	7.1	6.8	7.4	<2	<2	<2	0.4	<2	<2	<2	<2	5.3	4.8	6.1	527	482	552	5.6	4.8	6.6	6.1	6.1	6.1	<0.1	<0.1	<0.1							
Jun-14	1.5	0.3	4.1	844	805	876	7.2	6.9	7.4	<2	<2	<2	0.5	<2	<2	<2	<2	5.2	4.9	5.5	527	488	564	4.0	2.5	5.4	3.4	3.4	3.4	<0.1	<0.1	0.1							
Jul-14	3.0	0.6	5.9	825	797	869	7.2	6.9	7.4	<2	<2	<2	0.5	<2	<2	<2	<2	5.4	4.8	6.2	497	490	506	3.1	1.8	4.1	3.8	3.8	3.8	<0.1	<0.1	0.2							
Aug-14	3.3	0.7	6.4	857	808	949	7.1	6.7	7.4	<2	<2	<2	0.5	<2	<2	<2	<2	5.4	5.0	5.9	519	500	538	2.8	1.6	4.1	2.7	2.7	2.7	<0.1	<0.1	<0.1							
Sep-14	3.7	0.3	10.5	890	828	946	7.0	6.8	7.1	<2	<2	<2	0.6	<2	<2	<2	<2	5.3	4.9	5.7	511	498	524	3.9	2.0	7.3	4.3	4.3	4.3	<0.1	<0.1	<0.1							
Oct-14	4.7	0.2	12.1	1,082	1,004	1,137	6.9	6.6	7.0	<2	<2	<2	0.6	<2	<2	<2	<2	5.2	4.7	5.6	543	520	576	4.8	2.9	6.6	6.1	6.1	6.1	<0.1	<0.1	<0.1							
Nov-14	12.2	2.2	21.2	1,080	1,054	1,111	6.9	6.7	7.1	<2	<2	<2	0.5	<2	<2	<2	<2	5.8	5.3	6.1	582	566	608	6.3	4.8	8.4	5.4	5.4	5.4	<0.1	<0.1	<0.1							
Dec-14	29.2	19.3	35.7	1,051	972	1,089	6.7	6.6	6.9	<2	<2	<2	0.6	<2	<2	<2	<2	5.5	5.0	6.2	565	524	596	6.2	4.1	8.7	6.6	6.6	6.6	<0.2	<0.2	0.5							
Avg	8.3	2.8	17.8	913	865	962	7.1	6.8	7.2	<2	<2	<2	0.5	<2	<2	<2	<2	5.4	4.9	5.9	526	500	548	5.1	3.4	7.0	5.9	5.6	6.0	<0.1	<0.1	<0.1							
Min	1.5	0.2	4.1	825	797	869	6.7	6.5	6.9	<2	<2	<2	0.4	<2	<2	<2	<2	5.2	4.7	5.5	497	468	506	2.8	1.6	4.1	2.7	2.7	2.7	<0.1	<0.1	<0.1							
Max	29.2	19.3	36.5	1,082	1,054	1,137	7.2	6.9	7.5	<2	<2	<2	0.6	<2	<2	<2	<2	5.8	5.3	6.2	582	566	608	6.7	5.1	9.5	9.9	9.9	9.9	<0.2	<0.2	0.5							

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Table No. 3c

**RP-5 (M-003) Effluent Monitoring Data**

Date	Flow			EC			pH			BOD <sub>5</sub>			TSS			TOC			TDS			TIN			TN			NH <sub>3</sub> -N (grab)								
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg Dis	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max						
Limit>>>							6.5-8.5			20			15			20												4.5								
Jan-14	3.5	1.9	5.8	906	836	1,013	6.8	6.6	6.9	<2	<2	<2	0.6	0.6	0.6	<2	<2	<2	4.7	4.2	6.8	524	514	532	6.7	5.9	7.4	7.8	7.8	7.8	0.1	0.1	0.1			
Feb-14	4.6	3.3	7.2	1,159	937	1,232	6.7	6.6	6.9	<2	<2	<2	0.5	0.5	0.6	<2	<2	<2	4.2	3.7	4.6	508	496	516	5.6	4.4	7.0	5.9	5.9	5.9	0.3	<0.1	0.7			
Mar-14	5.1	3.4	7.4	953	765	1,112	6.8	6.6	7.0	<2	<2	<2	0.5	0.5	0.6	<2	<2	<2	4.5	3.8	5.4	522	498	534	4.6	3.5	5.8	3.9	3.9	3.9	0.3	0.2	0.4			
Apr-14	3.8	2.9	4.9	1,048	780	1,175	6.8	6.5	7.0	<2	<2	<2	0.5	0.5	0.7	<2	<2	<2	4.6	4.1	5.5	541	530	550	5.7	2.9	8.2	7.9	7.9	7.9	0.5	<0.1	1.0			
May-14	3.1	1.9	5.5	1,096	1,009	1,181	6.8	6.6	7.0	<2	<2	<2	0.6	0.6	0.7	<2	<2	<2	4.6	4.1	5.1	558	554	562	4.4	3.1	6.1	4.9	4.9	4.9	<0.1	<0.1	<0.1			
Jun-14	2.1	0.7	4.7	1,003	880	1,141	6.8	6.5	7.5	<2	<2	<2	0.6	0.6	0.7	<2	<2	<2	4.6	4.2	5.9	562	538	594	4.4	2.5	9.6	3.0	3.0	3.0	0.2	<0.1	0.3			
Jul-14	0.4	0.0	1.4	863	813	941	6.9	6.7	7.0	<2	<2	<2	0.6	0.6	0.9	<2	<2	<2	5.0	4.3	5.7	576	576	576	4.2	2.8	5.9	4.2	4.2	4.2	0.2	<0.1	0.2			
Aug-14	0.0	0.0	0.0	1,000	923	1,078	6.9	6.8	7.1	<2	<2	<2	0.5	0.5	0.6	<2	<2	<2	4.4	4.0	4.9				6.1	5.0	7.5				0.2	0.2	0.2			
Sep-14	0.0	0.0	0.0	998	867	1,096	6.8	6.6	7.0	<2	<2	<2	0.7	0.7	0.8	<2	<2	<2	4.2	3.9	4.9				6.0	5.3	6.6									
Oct-14	0.0	0.0	0.0	1,004	934	1,033	6.8	6.6	6.9	<2	<2	<2	0.7	0.7	0.7	<2	<2	<2	4.3	3.7	4.9				6.5	5.0	9.5									
Nov-14	1.8	0.0	6.9	1,002	969	1,035	6.7	6.6	7.3	<2	<2	<2	0.7	0.7	0.8	<2	<2	<2	4.9	4.5	5.6	581	566	594	8.0	6.0	9.8	11.2	11.2	11.2	<0.1	<0.1	<0.1			
Dec-14	9.1	5.9	11.5	1,009	927	1,112	6.9	6.5	7.1	<2	<2	<2	0.7	0.7	0.9	<2	<2	<2	4.9	4.6	5.7	581	566	604	6.8	5.1	9.3	10.5	10.5	10.5	<0.1	<0.1	<0.1			
Avg	2.8	1.7	4.6	1,003	887	1,096	6.8	6.6	7.1	<2	<2	<2	0.6	0.6	0.7	<2	<2	<2	4.6	4.1	5.4	580	538	562	5.7	4.3	7.7	5.4	5.4	5.4	5.4	5.4	5.4	<0.1	<0.1	<0.1
Min	0.0	0.0	0.0	863	765	941	6.7	6.5	6.9	<2	<2	<2	0.5	0.5	0.6	<2	<2	<2	4.2	3.7	4.6	508	496	516	4.2	2.5	5.8	3.0	3.0	3.0	<0.1	<0.1	<0.1			
Max	9.1	5.9	11.5	1,159	1,009	1,232	6.9	6.8	7.5	<2	<2	<2	0.7	0.7	0.9	<2	<2	<2	5.0	4.6	6.8	581	576	604	8.0	6.0	9.8	7.9	7.9	7.9	0.5	0.2	1.0			

\* Lab EC data used

Table No. 3d

**CCWRf (M-004) Effluent Monitoring Data**

Date	Flow			EC			pH			BOD <sub>5</sub>			TSS			TOC			TDS			TIN			TN			NH <sub>3</sub> -N (grab)					
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg Dis	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max			
Limit>>>							6.5-8.5			20			15			20												4.5					
Jan-14	6.0	2.9	10.3	906	874	983	6.8	6.5	7.7	<2	<2	<2	0.5	0.5	0.7	<2	<2	<2	4.7	4.0	5.4	541	540	542	4.1	3.3	5.4	5.1	5.1	5.1	<0.1	<0.1	<0.1
Feb-14	5.2	3.3	5.9	996	881	1,119	6.7	6.6	6.8	<2	<2	<2	0.4	0.4	0.4	<2	<2	<2	4.2	3.8	5.0	540	524	550	4.3	3.1	5.6	4.6	4.6	4.6	<0.1	<0.1	<0.1
Mar-14	5.8	4.4	6.5	975	885	1,123	7.0	6.6	7.2	<2	<2	<2	0.4	0.4	0.4	<2	<2	<2	4.6	4.2	5.9	538	530	548	4.3	3.4	5.1	3.8	3.8	3.8	<0.1	<0.1	<0.1
Apr-14	3.1	0.4	6.4	914	894	933	7.1	6.7	7.7	<2	<2	<2	0.4	0.4	0.6	<2	<2	<2	4.7	4.2	5.2	561	542	584	4.9	3.7	7.0	3.7	3.7	3.7	<0.1	<0.1	<0.1
May-14	1.1	0.3	5.0	982	942	1,103	6.9	6.6	7.2	<2	<2	<2	0.4	0.4	0.6	<2	<2	<2	4.6	4.1	5.4	619	578	726	5.8	4.7	6.7	6.5	6.5	6.5	<0.1	<0.1	<0.1
Jun-14	0.7	0.6	0.9	975	937	997	6.8	6.6	7.0	<2	<2	<2	0.6	0.6	0.7	<2	<2	<2	4.6	4.2	5.0	586	572	610	5.5	4.7	6.6	5.5	5.5	5.5	<0.1	<0.1	0.1
Jul-14	0.8	0.6	1.6	984	933	1,103	6.9	6.6	7.2	<2	<2	<2	0.5	0.5	0.6	<2	<2	<2	4.9	4.4	5.5	575	530	594	4.9	3.8	6.5	7.7	7.7	7.7	<0.1	<0.1	<0.1
Aug-14	1.2	0.7	5.4	1,058	892	1,114	7.0	6.6	8.2	<2	<2	<2	0.5	0.5	0.7	<2	<2	<2	4.7	4.3	5.0	593	562	634	6.1	5.1	7.1	7.1	7.1	7.1	<0.4	<0.1	1.1
Sep-14	2.2	1.1	7.6	1,008	883	1,080	6.9	6.6	7.1	<2	<2	<2	0.5	0.5	0.7	<2	<2	<2	4.7	4.4	5.0	584	556	626	5.0	3.5	6.7	5.1	5.0	5.2	<0.1	<0.1	0.1
Oct-14	5.9	2.1	9.2	906	859	981	7.0	6.6	7.2	<2	<2	<2	0.5	0.5	0.6	<2	<2	<2	4.8	4.5	5.2	586	538	630	4.7	3.7	6.0	5.9	5.9	5.9	<0.1	<0.1	<0.1
Nov-14	8.4	4.2	10.5	874	836	895	7.1	6.9	7.2	<2	<2	<2	0.5	0.5	0.6	<2	<2	<2	4.9	4.5	5.5	597	578	620	4.8	2.9	6.4	6.6	6.6	6.6	<0.1	<0.1	<0.1
Dec-14	6.9	0.1	8.6	872	827	986	7.1	6.6	7.5	<2	<2	<2	0.7	0.7	0.9	<2	<2	<2	4.7	3.3	6.0	569	554	580	5.0	4.4	5.8	6.1	6.1	6.1	<0.1	<0.1	<0.1
Avg	3.9	1.7	6.5	954	887	1,035	6.9	6.6	7.3	<2	<2	<2	0.5	0.5	0.8	<2	<2	<2	4.7	4.1	5.3	574	530	604	5.0	3.9	6.2	5.6	5.6	5.6	<0.1	<0.1	<0.1
Min	0.7	0.1	0.9	872	827	895	6.7	6.5	6.8	<2	<2	<2	0.4	0.4	0.6	<2	<2	<2	4.2	3.3	5.0	538	524	542	4.1	2.9	5.1	3.7	3.7	3.7	<0.1	<0.1	<0.1
Max	8.4	4.4	10.5	1,058	942	1,123	7.1	6.9	8.2	<2	<2	<2	0.7	0.7	1.2	<2	<2	<2	4.9	4.5	6.0	619	578	726	6.1	5.1	7.1	7.7	7.7	7.7	<0.4	<0.1	1.1



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Table No. 5a

RP-1 (M-001A & M-001B) & RP-1/RP-4 (M-002A) Effluent Monitoring and Coliform Data

Date	001 Turbidity		002 Turbidity		001 Temp		002 Temp		001 Daily Coliform		001 7-day Median		002 Daily Coliforms		002 7-day Median		001 FLR		001 CT		002 FLR		002 DT		002 CT		
	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Max	Min	mg-min/L	Max	Min	min	mg-min/L	Max	Min
Jan-14	0.6	0.8	0.6	0.7	23.6	24.2	23.1	23.5	<2	2	<2	<2	<2	2	<2	<2	<2	3	144	613	3	153	803				
Feb-14	0.6	0.8	0.6	0.9	23.9	24.3	23.2	23.6	<2	4	<2	<2	<2	4	<2	<2	<2	3	144	608	3	179	752				
Mar-14	0.6	0.8	0.5	0.7	23.6	25.2	24.1	24.7	<2	4	<2	<2	<2	4	<2	<2	<2	3	145	699	3	182	905				
Apr-14	0.6	0.8	0.5	0.7	25.7	26.5	25.1	26.0	<2	2	<2	<2	<2	2	<2	<2	<2	3	147	690	3	166	852				
May-14	0.7	0.9	0.6	1.1	26.7	28.1	26.4	27.5	<2	2	<2	<2	<2	2	<2	<2	<2	3	155	783	3	170	831				
Jun-14	0.6	0.7	0.5	0.8	28.7	29.4	28.0	28.7	<2	<2	<2	<2	<2	<2	<2	<2	<2	3	148	787	3	175	757				
Jul-14	0.7	0.8	0.5	0.7	29.9	30.4	29.2	30.1	<2	2	<2	<2	<2	2	<2	<2	<2	3	152	710	3	170	741				
Aug-14	0.6	0.8	0.7	1.1	30.6	30.9	30.0	30.2	<2	2	<2	<2	<2	2	<2	<2	<2	4	142	619	4	141	691				
Sep-14	0.6	0.7	0.6	1.1	30.2	30.8	30.0	30.9	<2	2	<2	<2	<2	2	<2	<2	<2	3	144	665	3	173	747				
Oct-14	0.6	0.8	0.5	0.9	28.6	29.0	28.7	29.5	<2	12	<2	<2	<2	12	<2	<2	<2	4	139	587	4	169	675				
Nov-14	0.7	0.8	0.6	0.7	26.2	27.4	26.3	27.4	<2	2	<2	<2	<2	2	<2	<2	<2	4	142	675	4	168	738				
Dec-14	0.6	0.8	0.6	0.7	24.8	26.1	24.0	25.3	<2	2	<2	<2	<2	2	<2	<2	<2	4	129	629	4	158	660				
Avg	0.6	0.8	0.6	0.8	26.9	27.7	26.5	27.3	<2	3	<2	<2	<2	3	<2	<2	<2	3	144	669	3	167	763				
Min	0.5	0.7	0.5	0.7	23.6	24.2	23.1	23.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	3	129	587	3	141	660				
Max	0.7	0.9	0.7	1.1	30.6	30.9	30.0	30.9	<2	12	<2	<2	<2	12	<2	<2	<2	4	155	787	4	182	905				

Requirements for disinfected tertiary-treated recycled water Title 22 Compliance: Min: 450 mg/L-min CT & 90 min DT  
\*Beginning August 2009, 002 effluent coliform compliance point at M-001B (splitter box).

Table No. 5b

RP-5 (M-003) & CCWRF (M-004) Effluent Monitoring and Coliform Data

Date	003 Turbidity		004 Turbidity		003 Temp		004 Temp		003 Daily Coliform		003 7-day Median		004 Daily Coliform		004 7-day Median		003 FLR		003 DT		004 FLR		004 DT		004 CT			
	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Max	Min	mg-min/L	Max	Min	min	mg-min/L	Max	Min	min	mg-min/L	
Jan-14	1.2	1.5	0.5	0.8	22.4	23.1	21.8	23.0	<2	<2	<2	<2	<2	<2	<2	<2	4	146	477	1	172	689						
Feb-14	1.1	1.6	0.3	0.7	22.8	23.5	22.5	23.0	<2	<2	<2	<2	<2	2	<2	<2	4	166	506	1	195	627						
Mar-14	1.3	2.3	0.4	0.7	24.1	25.4	22.7	23.1	<2	<2	<2	<2	<2	<2	<2	<2	4	183	501	1	168	566						
Apr-14	1.5	2.4	0.6	1.0	24.8	25.7	23.8	25.9	<2	2	<2	<2	<2	2	<2	<2	4	166	488	1	167	495						
May-14	0.9	1.2	0.7	0.9	26.0	26.8	25.5	28.0	<2	2	<2	<2	<2	2	<2	<2	4	146	504	2	144	579						
Jun-14	0.9	1.2	0.6	0.7	26.7	28.8	27.2	28.5	<2	2	<2	<2	<2	2	<2	<2	4	184	524	1	161	543						
Jul-14	1.2	2.0	0.4	0.6	27.8	27.8	28.7	30.0	<2	<2	<2	<2	<2	2	<2	<2	4	191	519	2	150	513						
Aug-14	1.0	1.3	0.4	0.9	-	-	28.8	30.1	<2	<2	<2	<2	<2	<2	<2	<2	4	207	509	2	142	504						
Sep-14	1.2	1.4	0.4	0.8	-	-	28.8	31.3	<2	<2	<2	<2	<2	2	<2	<2	4	196	675	2	118	476						
Oct-14	1.2	1.7	0.4	0.6	-	-	27.7	29.1	<2	<2	<2	<2	<2	<2	<2	<2	4	189	500	2	118	479						
Nov-14	1.2	1.9	0.5	0.8	21.1	24.7	25.0	26.3	<2	2	<2	<2	<2	2	<2	<2	4	109	481	2	131	493						
Dec-14	0.8	1.2	0.4	0.9	24.0	24.2	22.5	24.5	<2	2	<2	<2	<2	2	<2	<2	4	131	526	1	154	591						
Avg	1.1	1.6	0.5	0.8	24.4	25.6	25.4	26.9	<2	<2	<2	<2	<2	2	<2	<2	4	168	518	2	152	546						
Min	0.8	1.2	0.3	0.6	21.1	23.1	21.8	23.0	<2	<2	<2	<2	<2	<2	<2	<2	4	109	477	1	118	476						
Max	1.5	2.4	0.7	1.0	27.8	28.8	28.8	31.3	<2	2	<2	<2	<2	2	<2	<2	4	207	675	2	195	689						

Requirements for disinfected tertiary-treated recycled water Title 22 Compliance: Min: 450 mg/L-min CT & 90 min DT



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Table No. 7a

RP-1 (REC-001) & RP-4 (REC-002) Recycled Water Data

Date	REC-001										REC-002									
	Flow	pH	Turbidity	CT	Daily Coliform	7-day Median	BOD	TSS	TDS	Flow	pH	Turbidity	CT	Daily Coliform	7-day Median	BOD	TSS	TDS		
	mgd	unit	NTU	mg-min/L	Avg	Max	Avg	mg/L	mgd	unit	NTU	mg-min/L	Avg	Max	Avg	Max	mg/L	mgd	unit	
Jan-14	13.9	7.1	0.6	613	<2	<2	<2	<2	503	8.5	0.7	852	<2	<2	<2	<2	<2	483		
Feb-14	10.7	7.1	0.6	608	<2	4	<2	<2	510	7.1	0.7	491	<2	2	<2	<2	<2	486		
Mar-14	8.1	7.1	0.6	699	<2	4	<2	<2	482	6.2	0.5	635	<2	2	<2	<2	<2	452		
Apr-14	13.8	7.2	0.6	690	<2	2	<2	<2	508	8.3	0.5	577	<2	2	<2	<2	<2	484		
May-14	15.4	7.2	0.7	783	<2	2	<2	<2	508	9.7	0.4	748	<2	2	<2	<2	<2	494		
Jun-14	22.0	7.3	0.6	787	<2	<2	<2	<2	492	10.1	0.4	541	<2	<2	<2	<2	<2	477		
Jul-14	21.8	7.4	0.7	710	<2	2	<2	<2	489	10.4	0.3	657	<2	<2	<2	<2	<2	451		
Aug-14	22.9	7.4	0.6	619	<2	2	<2	<2	508	10.0	0.4	655	<2	<2	<2	<2	<2	453		
Sep-14	21.7	7.3	0.6	665	<2	2	<2	<2	506	9.2	0.7	758	<2	<2	<2	<2	<2	521		
Oct-14	18.5	7.3	0.6	587	<2	12	<2	<2	532	4.7	0.5	801	<2	<2	<2	<2	<2	513		
Nov-14	13.4	7.2	0.7	675	<2	2	<2	<2	558	12.1	0.4	711	<2	2	<2	<2	<2	513		
Dec-14	2.3	7.1	0.6	629	<2	2	<2	<2	563	29.0	0.3	823	<2	<2	<2	<2	<2	526		
Avg	15.4	7.2	0.6	673	<2	3	<2	<2	513	10.4	0.5	683	<2	<2	<2	<2	<2	488		
Min	2.3	7.1	0.6	587	<2	<2	<2	<2	482	4.7	0.3	491	<2	2	<2	<2	<2	451		
Max	22.9	7.4	0.7	787	<2	12	<2	<2	563	29.0	0.7	852	<2	2	<2	<2	<2	526		

RP-5 (REC-003) & CCWRF (REC-004) Recycled Water Data

Table No. 7b

Date	REC-003										REC-004									
	Flow	pH	Turbidity	CT	Daily Coliform	7-day Median	BOD	TSS	TDS	Flow	pH	Turbidity	CT	Daily Coliform	7-day Median	BOD	TSS	TDS		
	mgd	unit	NTU	mg-min/L	Avg	Max	Avg	mg/L	mgd	unit	NTU	mg-min/L	Avg	Max	Avg	Max	mg/L	mgd	unit	
Jan-14	5.8	6.8	1.2	477	<2	<2	<2	<2	505	0.0	6.8	0.5	689	<2	<2	<2	<2	<2		
Feb-14	4.9	6.7	1.1	506	<2	<2	<2	<2	490	0.0	6.7	0.3	627	<2	2	<2	<2	<2		
Mar-14	3.7	6.8	1.3	501	<2	<2	<2	<2	505	0.0	7.0	0.4	566	<2	<2	<2	<2	<2		
Apr-14	6.1	6.8	1.5	488	<2	2	<2	<2	518	5.1	7.1	0.6	495	<2	2	<2	<2	<2		
May-14	6.7	6.8	0.9	504	<2	2	<2	<2	531	6.4	6.9	0.7	579	<2	2	<2	<2	<2		
Jun-14	4.8	6.8	0.9	524	<2	2	<2	<2	514	6.2	6.8	0.6	543	<2	2	<2	<2	<2		
Jul-14	5.3	6.9	1.2	519	<2	<2	<2	<2	525	5.8	6.9	0.4	513	<2	2	<2	<2	<2		
Aug-14	4.1	6.9	1.0	509	<2	<2	<2	<2	525	5.4	7.0	0.4	504	<2	<2	<2	<2	<2		
Sep-14	4.9	6.8	1.2	675	<2	<2	<2	<2	533	6.2	6.9	0.4	476	<2	2	<2	<2	<2		
Oct-14	4.5	6.8	1.2	500	<2	<2	<2	<2	552	2.9	7.0	0.4	499	<2	<2	<2	<2	<2		
Nov-14	4.3	6.7	1.2	481	<2	2	<2	<2	572	0.4	7.1	0.5	493	<2	2	<2	<2	<2		
Dec-14	0.5	6.9	0.8	526	<2	2	<2	<2	561	0.3	7.1	0.4	591	<2	2	<2	<2	<2		
Avg	4.6	6.8	1.1	503	<2	<2	<2	<2	528	3.2	6.9	0.5	553	<2	2	<2	<2	<2		
Min	0.5	6.7	0.8	477	<2	<2	<2	<2	490	0.0	6.7	0.3	476	<2	<2	<2	<2	<2		
Max	6.7	6.9	1.5	526	<2	2	<2	<2	572	6.4	7.1	0.7	689	<2	2	<2	<2	<2		



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**RP-1 (M-001B) Effluent Monthly Inorganic & Organic Data**

Date	Total Hardness	HCO <sub>3</sub> <sup>-</sup>	B	Ca	CO <sub>3</sub> <sup>2-</sup>	Cl	F	Mg	Na	SO <sub>4</sub>	Ca <sub>T</sub>	Cr <sub>Total</sub>	Cu <sub>TR</sub>	Pb <sub>TR</sub>	Hg <sub>TR</sub>	Se <sub>TR</sub>	Ag <sub>TR</sub>	Zn <sub>TR</sub>	Bis(2-ethylhexyl) phthalate	Bromochloroethane	CN Free*
Limits	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	TR	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Jan-14	157	136	0.2	46	0	120	0.2	10	111	44	<0.25	0.9	3	<0.5	<0.05	<2	<0.25	22	<2	26	<2
Feb-14	149	122	0.2	44	0	124	0.2	10	104	52	<0.25	0.8	2	<0.5	<0.05	<2	<0.25	24	<2	<2	<2
Mar-14	152	123	0.2	46	0	116	0.2	9	105	53	<0.25	0.8	2	<0.5	<0.05	<2	<0.25	21	<2	<2	<2
Apr-14	162	148	0.2	49	0	123	0.2	10	110	54	<0.25	0.8	2	<0.5	<0.05	<2	0.51	24	<2	28	<2
May-14	163	143	0.3	49	0	132	0.2	10	107	52	<0.25	0.6	2	<0.5	<0.05	<2	<0.25	25	<2	<2	<2
Jun-14	154	158	0.2	47	0	114	0.2	9	102	50	<0.25	0.8	2	<0.5	<0.05	<2	<0.25	22	<2	<2	<2
Jul-14	160	150	0.2	48	0	107	0.2	9	100	58	<0.25	0.7	2	<0.5	<0.05	<2	<0.25	24	<2	32	<2
Aug-14	163	157	0.3	51	0	113	0.2	9	96	59	<0.25	0.9	4	<0.5	<0.05	<2	<0.25	20	<2	<2	<2
Sep-14	162	161	0.3	49	0	119	0.2	10	106	63	<0.25	1.4	5	<0.5	<0.05	<2	<0.25	21	<2	<2	<2
Oct-14	157	159	0.3	47	0	115	0.2	10	109	59	<0.25	1.1	4	<0.5	<0.05	<2	<0.25	22	<2	36	<2
Nov-14	171	141	0.3	50	0	132	0.2	11	116	67	<0.25	1.0	4	<0.5	<0.05	<2	<0.25	22	<2	<2	<2
Dec-14	158	139	0.3	47	0	132	0.3	10	114	80	<0.25	0.9	4	<0.5	<0.05	<2	<0.25	25	<2	<2	<2
Avg	159	145	0.3	48	0	121	0.2	10	107	58	<0.25	0.8	3	<0.5	<0.05	<2	<0.27	23	<2	30	<2
Min	149	122	0.2	44	0	107	0.2	9	96	44	<0.25	<0.5	2	<0.5	<0.05	<2	<0.25	20	<2	26	<2
Max	171	161	0.3	51	0	132	0.3	11	116	80	<0.25	1.4	5	<0.5	<0.05	<2	0.51	25	<2	36	<2

**RP-1/RP-4 (M-002A) Effluent Monthly Inorganic & Organic Data**

Date	Total Hardness	HCO <sub>3</sub> <sup>-</sup>	B	Ca	CO <sub>3</sub> <sup>2-</sup>	Cl	F	Mg	Na	SO <sub>4</sub>	Ca <sub>T</sub>	Cr <sub>Total</sub>	Cu <sub>TR</sub>	Pb <sub>TR</sub>	Hg <sub>TR</sub>	Se <sub>TR</sub>	Ag <sub>TR</sub>	Zn <sub>TR</sub>	Bis(2-ethylhexyl) phthalate	Bromochloroethane	CN Free*
Limits	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	TR	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Jan-14	159	133	0.2	47	0	119	0.2	10	117	57	<0.25	0.8	3	<0.5	<0.05	<2	<0.25	73	<2	17	<2
Feb-14	149	111	0.2	43	0	123	0.2	10	114	80	<0.25	0.8	2	<0.5	<0.05	<2	<0.25	25	<2	<2	<2
Mar-14	148	114	0.2	45	0	116	0.2	9	109	65	<0.25	0.8	2	<0.5	<0.05	<2	<0.25	22	<2	<2	<2
Apr-14	161	132	0.2	48	0	124	0.2	10	118	80	<0.25	0.7	2	<0.5	<0.05	<2	<0.25	24	<2	19	<2
May-14	168	136	0.3	51	0	134	0.2	10	117	69	<0.25	0.6	2	<0.5	<0.05	<2	<0.25	25	<2	<2	<2
Jun-14	150	149	0.2	46	0	115	0.2	8	105	66	<0.25	0.7	2	<0.5	<0.05	<2	<0.25	21	<2	<2	<2
Jul-14	163	147	0.2	50	0	99	0.2	9	108	66	<0.25	0.8	4	<0.5	<0.05	<2	<0.25	25	<2	24	<2
Aug-14	166	156	0.3	52	0	113	0.2	9	101	71	<0.25	1.1	4	<0.5	<0.05	<2	<0.25	19	<2	<2	<2
Sep-14	164	149	0.3	49	0	121	0.2	10	112	78	<0.25	1.0	4	<0.5	<0.05	<2	<0.25	21	<2	<2	<2
Oct-14	156	156	0.3	46	0	115	0.2	10	110	70	<0.25	1.0	3	<0.5	<0.05	<2	<0.25	22	<2	28	<2
Nov-14	167	141	0.3	49	0	128	0.2	10	122	81	<0.25	1.1	4	<0.5	<0.05	<2	<0.25	22	<2	<2	<2
Dec-14	159	131	0.3	47	0	121	0.2	10	122	93	<0.25	<0.5	5	<0.5	<0.05	<2	<0.25	25	<2	<2	<2
Avg	159	138	0.3	48	0	119	0.2	10	113	73	<0.25	0.8	3	<0.5	<0.05	<2	<0.25	23	<2	22	<2
Min	148	111	0.2	43	0	99	0.2	8	101	57	<0.25	<0.5	2	<0.5	<0.05	<2	<0.25	19	<2	17	<2
Max	168	156	0.3	52	0	134	0.3	10	122	93	<0.25	1.1	5	<0.5	<0.05	<2	<0.25	25	<2	28	<2

\*Free Cyanide is analyzed using ASTM-D7237 for analysis of aquatic free cyanide in accordance with RB-2009-0021

Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2014 NPDES Annual Report

RP-5 (M-003) Effluent Monthly Inorganic Data

Date	Total Hardness	HCO <sub>3</sub> <sup>-</sup>	B	Ca	CO <sub>3</sub> <sup>2-</sup>	Cl	F	Mg	Na	SO <sub>4</sub>	Cd <sub>T</sub>	Cd <sub>Total</sub>	Cu	Pb	Hg	Sb	Ag	Zn	Bis(2-ethylhexyl) phthalate	Bromochloroethane	CN, Free*	
Limits	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Jan-14	131	142	0.1	39	0	125	0.1	8	27	57	<0.25	0.9	7	<0.5	<0.05	<2	<0.25	38	5.9 mo avg; 11.9 max daily	46 mo avg; 92 max daily	<2	
Feb-14	180	132	0.2	53	0	131	0.1	11	91	51	<0.25	0.9	6	<0.5	<0.05	<2	<0.25	43	<2	22	<2	
Mar-14	179	137	0.2	54	0	123	0.1	11	98	60	<0.25	0.8	6	<0.5	<0.05	<2	<0.25	30	<2	18	<2	
Apr-14	191	120	0.3	57	0	154	0.1	12	109	63	<0.25	0.8	6	<0.5	<0.05	<2	<0.25	31	<2	22	<2	
May-14	197	141	0.3	58	0	140	0.4	13	114	72	<0.25	0.8	4	<0.5	<0.05	<2	<0.25	27	<2	30	<2	
Jun-14	179	147	0.3	54	0	130	0.2	11	101	67	<0.25	0.8	4	<0.5	<0.05	<2	<0.25	25	<2	26	<2	
Jul-14	212	149	0.3	63	0	133	0.2	14	114	71	<0.25	0.7	6	<0.5	<0.05	<2	<0.25	33	<2	36	<2	
Aug-14																						
Sep-14																						
Oct-14																						
Nov-14	204	123	0.3	61	0	146	0.1	13	106	79	0.38	1.1	8	<0.5	<0.05	<2	<0.25	40	<2	21	<2	
Dec-14	200	118	0.3	61	0	145	0.1	12	103	68	<0.25	<0.5	7	<0.5	<0.05	<2	<0.25	41	<2	25	<2	
Avg	186	134	0.3	56	0	136	0.2	12	96	65	<0.26	0.8	6	<0.5	<0.05	<2	<0.25	34	<2	25	<2	
Min	131	118	0.1	39	0	123	0.1	8	27	51	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	25	<2	18	<2	
Max	212	149	0.3	63	0	154	0.4	14	114	79	0.38	1.1	8	<0.5	<0.05	<2	<0.25	43	<2	36	<2	

Table No. 8c

CCWRWF (M-004) Effluent Monthly Inorganic Data

Date	Total Hardness	HCO <sub>3</sub> <sup>-</sup>	B	Ca	CO <sub>3</sub> <sup>2-</sup>	Cl	F	Mg	Na	SO <sub>4</sub>	Cd <sub>T</sub>	Cd <sub>Total</sub>	Cu	Pb	Hg	Sb	Ag	Zn	Bis(2-ethylhexyl) phthalate	Bromochloroethane	CN, Free*
Limits	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Jan-14	175	139	0.3	49	0	133	0.1	13	121	66	<0.25	0.9	6	<0.5	<0.05	<2	<0.25	26	5.8 mo avg; 11.9 max daily	39	<2
Feb-14	165	128	0.2	49	0	140	0.1	11	106	65	<0.25	0.8	6	<0.5	<0.05	<2	<0.25	32	<2		<2
Mar-14	160	113	0.2	47	0	146	0.1	10	118	68	<0.25	0.9	6	<0.5	<0.05	2	<0.25	34	<2		<2
Apr-14	178	135	0.3	53	0	146	<0.1	11	122	75	<0.25	1.0	6	<0.5	<0.05	<2	<0.25	44	<2	38	<2
May-14	179	89	0.3	53	0	152	0.2	11	172	189	<0.25	0.9	5	<0.5	<0.05	<2	<0.25	43	<2		<2
Jun-14	170	110	0.2	50	0	145	0.2	11	121	102	<0.25	0.9	9	<0.5	<0.05	<2	<0.25	34	<2		<2
Jul-14	182	114	0.3	54	0	136	0.2	11	124	105	<0.25	0.8	6	<0.5	<0.05	<2	<0.25	46	<2	28	<2
Aug-14	191	124	0.3	57	0	143	0.1	12	107	78	<0.25	1.4	8	<0.5	<0.05	<2	<0.25	54	<2		<2
Sep-14	166	110	0.3	47	0	157	0.1	12	128	102	<0.25	1.2	9	<0.5	<0.05	<2	<0.25	38	<2	39	<2
Oct-14	167	126	0.3	46	0	158	0.1	12	126	87	<0.25	1.3	6	<0.5	<0.05	<2	<0.25	40	<2	41	<2
Nov-14	177	125	0.3	53	0	142	0.3	11	115	78	<0.25	1.3	6	<0.5	<0.05	<2	0.34	40	<2		<2
Dec-14	182	128	0.3	55	0	137	0.2	11	106	72	<0.25	1.0	5	<0.5	<0.05	<2	<0.25	49	<2		<2
Avg	174	120	0.3	51	0	145	0.2	11	122	91	<0.25	1.0	6	<0.5	<0.05	<2	<0.26	40	<2	37	<2
Min	160	89	0.2	46	0	133	0.1	10	106	65	<0.25	0.5	5	<0.5	<0.05	<2	<0.25	26	<2	28	<2
Max	191	139	0.3	57	0	158	0.3	13	172	189	<0.25	1.4	9	<0.5	<0.05	2	0.34	54	<2	41	<2

Table No. 8d

\*Free Cyanide is analyzed using ASTM-D7237 for analysis of aquatic free cyanide in accordance with RB-2009-0021

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RP-1 (M-001B) Effluent Quarterly Data

Date	Al, TR µg/L	Sb, TR µg/L	As, TR µg/L	Ba, TR µg/L	Co, TR µg/L	Ni, TR µg/L
Jan-14	30	<1	<2	13	<1	3
Feb-14	32	<1	<2	15	<1	3
Mar-14	103	<1	<2	14	<1	3
Apr-14	<25	<1	<2	14	<1	3
May-14	34	<1	<2	17	<1	3
Jun-14	47	<1	<2	17	<1	2
Jul-14	38	<1	<2	13	<1	3
Aug-14	37	<1	<2	15	<1	2
Sep-14	40	<1	<2	15	<1	2
Oct-14	37	<1	<2	17	<1	3
Nov-14	37	<1	<2	15	<1	3
Dec-14	33	<1	<2	15	<1	3
Avg	41	<1	<2	15	<1	3
Min	<25	<1	<2	13	<1	2
Max	103	<1	<2	17	<1	3

RP-1/RP-4 (M-002A) Effluent Quarterly Data

Date	Al, TR µg/L	Sb, TR µg/L	As, TR µg/L	Ba, TR µg/L	Co, TR µg/L	Ni, TR µg/L
Jan-14	28	<1	<2	13	<1	3
Feb-14	32	<1	<2	15	<1	2
Mar-14	110	<1	<2	14	<1	3
Apr-14	<25	<1	<2	14	<1	2
May-14	34	<1	<2	17	<1	2
Jun-14	44	<1	<2	17	<1	2
Jul-14	40	<1	<2	13	<1	3
Aug-14	36	<1	<2	15	<1	2
Sep-14	43	<1	<2	15	<1	2
Oct-14	35	<1	<2	17	<1	2
Nov-14	40	<1	<2	14	<1	3
Dec-14	45	<1	<2	15	<1	3
Avg	43	<1	<2	15	<1	3
Min	<25	<1	<2	13	<1	2
Max	110	<1	<2	17	<1	3

RP-5 (M-003) Effluent Quarterly Data

Date	Al, TR µg/L	Sb, TR µg/L	As, TR µg/L	Ba, TR µg/L	Co, TR µg/L	Ni, TR µg/L
Jan-14	54	<1	<2	26	<1	2
Feb-14	<25	<1	<2	26	<1	2
Mar-14	<25	<1	<2	18	<1	3
Apr-14	59	<1	<2	16	<1	3
May-14	43	<1	<2	12	<1	3
Jun-14	30	<1	<2	18	<1	3
Jul-14	66	<1	<2	19	<1	3
Aug-14						
Sep-14						
Oct-14		<1	2	22	<1	2
Nov-14	41	<1	<2	27	<1	2
Dec-14	<25	<1	<2	20	<1	3
Avg	41	<1	<2	20	<1	3
Min	<25	<1	<2	12	<1	2
Max	66	<1	2	27	<1	3

Table No. 9c

CCWRF (M-004) Effluent Quarterly Data

Date	Al, TR µg/L	Sb, TR µg/L	As, TR µg/L	Ba, TR µg/L	Co, TR µg/L	Ni, TR µg/L
Jan-14	<25	<1	<2	13	<1	2
Feb-14	<25	<1	<2	11	<1	2
Mar-14	<25	<1	<2	8	<1	3
Apr-14	30	<1	<2	12	<1	4
May-14	43	<1	<2	14	<1	4
Jun-14	35	<1	<2	11	<1	3
Jul-14	46	<1	<2	15	<1	3
Aug-14	77	<1	<2	17	<1	4
Sep-14	34	<1	<2	14	<1	3
Oct-14	46	<1	2	14	<1	2
Nov-14	67	<1	2	15	<1	2
Dec-14	44	<1	2	18	<1	2
Avg	41	<1	<2	14	<1	3
Min	<25	<1	<2	8	<1	2
Max	77	<1	2	18	<1	4

Table No. 9d

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Table No. 10

Mo-Yr	Discharged Eff Flow				TIN				Agency-wide TIN					
	RP1/RP4	RP5	CC	MGD	RP1/RP4	RP5	CC	CC	Discharge	Limit	12-MRA	flow-wt.		
	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	flow wt.	total	flow wt.	total		
Jan-14	10.6	3.5	6.0	6.7	600	6.7	190	4.1	200	5.9	990	8	5,338	6.6
Feb-14	15.7	4.6	5.2	6.8	890	5.6	210	4.3	180	6.1	1,280	8	5,338	6.5
Mar-14	17.8	5.1	5.8	6.1	900	4.6	190	4.3	210	5.5	1,300	8	5,338	6.5
Apr-14	8.0	3.8	3.1	5.1	340	5.7	180	4.9	130	5.2	650	8	5,338	6.4
May-14	4.5	3.1	1.1	5.6	210	4.4	120	5.8	50	5.2	380	8	5,338	6.3
Jun-14	3.2	2.1	0.7	4.1	110	4.4	80	5.5	30	4.4	220	8	5,338	6.1
Jul-14	4.7	0.4	0.8	3.3	130	4.2	10	4.9	30	3.5	170	8	5,338	6.0
Aug-14	6.1	0.0	1.2	3.0	150	6.1	0	6.1	60	3.5	210	8	5,338	5.7
Sep-14	6.1	0.0	2.2	3.8	190	6.0	0	5.0	90	4.1	280	8	5,338	5.4
Oct-14	7.7	0.0	5.9	5.0	320	6.5	0	4.7	230	4.9	550	8	5,338	5.2
Nov-14	14.1	1.8	8.4	6.4	750	8.0	120	4.8	340	5.9	1,210	8	5,338	5.1
Dec-14	30.9	9.1	6.9	6.2	1,600	6.8	520	5.0	290	6.2	2,410	8	5,338	5.0
<b>Avg</b>	<b>10.8</b>	<b>2.8</b>	<b>3.9</b>	<b>5.2</b>	<b>520</b>	<b>5.7</b>	<b>140</b>	<b>5.0</b>	<b>150</b>	<b>5.0</b>	<b>800</b>	<b>8</b>	<b>5,338</b>	<b>5.9</b>
<b>Min</b>	<b>3.2</b>	<b>0.0</b>	<b>0.7</b>	<b>3.0</b>	<b>110</b>	<b>4.2</b>	<b>0</b>	<b>4.1</b>	<b>30</b>	<b>3.5</b>	<b>170</b>	<b>8</b>	<b>5,338</b>	<b>5.0</b>
<b>Max</b>	<b>30.9</b>	<b>9.1</b>	<b>8.4</b>	<b>6.8</b>	<b>1,600</b>	<b>8.0</b>	<b>520</b>	<b>6.1</b>	<b>340</b>	<b>6.2</b>	<b>2,410</b>	<b>8</b>	<b>5,338</b>	<b>6.6</b>

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Table No. 11

Mo-Yr	Agency-wide TDS 12-Month Running Averages												Agency-wide TDS							
	Flows						Total Dissolved Solids (TDS)						Discharge		Limit					
	RP-1 001 <sup>1</sup> RW	RP-4 RW	RP-5 RW	CC RW	CC RW	001 mg/L	RP-1 RW <sup>2</sup>	RP-4 RW	RP-5 RW	002 mg/L	RP-4 RW	RP-5 RW	RP-5 RW <sup>2</sup>	CC mg/L	CC RW <sup>2</sup>	flow wt. mg/L	total lbs/day	flow wt. mg/L	total lbs/day	
Jan-14	3.0	13.9	7.7	8.5	3.5	5.8	6.0	0.0	525	503	519	483	524	505	541	510	205,380	550	366,960	500
Feb-14	3.6	10.7	12.1	7.1	4.6	4.9	5.2	0.0	524	510	511	486	508	490	540	509	204,450	550	366,960	502
Mar-14	2.8	8.1	15.0	6.2	5.1	3.7	5.8	0.0	504	482	498	452	522	505	538	497	193,700	550	366,960	502
Apr-14	2.6	13.8	5.4	8.3	3.8	6.1	3.1	5.1	529	508	516	484	541	518	561	517	198,390	550	366,960	504
May-14	2.1	15.4	2.4	9.7	3.1	6.7	1.1	6.4	557	508	527	494	558	531	619	524	180,140	550	366,960	505
Jun-14	1.7	22.0	1.5	10.1	2.1	4.8	0.7	6.2	539	492	527	477	562	514	586	506	181,960	550	366,960	506
Jul-14	1.8	21.8	3.0	10.4	0.4	5.3	0.8	5.8	524	489	497	451	576	525	575	494	180,570	550	366,960	505
Aug-14	2.8	22.9	3.3	10.0	0.0	4.1	1.2	5.4	529	508	519	453	NA	525	593	508	190,540	550	366,960	506
Sep-14	2.5	21.7	3.7	9.2	0.0	4.9	2.2	6.2	560	506	511	521	NA	533	584	524	201,240	550	366,960	508
Oct-14	3.0	18.5	4.7	9.9	0.0	4.5	5.9	2.9	558	532	543	513	NA	552	586	541	236,290	550	366,960	512
Nov-14	1.9	13.4	12.2	7.2	1.8	4.3	8.4	0.4	602	558	582	535	581	572	597	571	274,020	550	366,960	518
Dec-14	1.6	2.3	29.2	3.8	9.1	0.5	6.9	0.3	558	563	565	526	581	561	569	565	283,550	550	366,960	522
Avg	2.4	15.4	8.3	8.4	2.8	4.6	3.9	3.2	542	513	526	489	550	528	574	522	210,850	550	366,960	508
Min	1.6	2.3	1.5	3.8	0.0	0.5	0.7	0.0	504	482	497	451	508	490	538	494	180,140	550	366,960	500
Max	3.6	22.9	29.2	10.4	9.1	6.7	8.4	6.4	602	563	582	535	581	572	619	571	283,550	550	366,960	522

NOTES: <sup>1</sup> Prior to April 2010, 001 effluent flow included recycled water flow.  
<sup>2</sup> Flow and TDS added to flow-weight for RP-1, RP-5, and CCWRF recycled water (May 2010)  
 NA: Not Analyzed, due to no discharge

## **APPENDIX B**

### **RECYCLED WATER**

### **COMPLIANCE DATA**

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**RP-1 (M-001B) Effluent Remaining Priority Pollutants**

Table 18a

**RP-1 (M-001B) Effluent Remaining Priority Pollutant Metals, µg/L**

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
Beryllium (Be)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium (Tl)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

**RP-1 (M-001B) Effluent Volatile Organics (EPA Methods 624, 601/602), µg/L**

1,1,1-Trichloroethane							<1		<1				<1
1,1,2,2-Tetrachloroethane							<0.5		<0.5				<0.5
1,1,2-Trichloroethane							<1		<1				<1
1,1-Dichloroethane							<0.5		<0.5				<0.5
1,1-Dichloroethene							<1		<1				<1
1,2-Dichlorobenzene							<1		<1				<1
1,2-Dichloroethane							<1		<1				<1
1,2-Dichloropropane							<0.5		<0.5				<0.5
1,3-Dichlorobenzene							<1		<1				<1
1,4-Dichlorobenzene							<1		<1				<1
2-Chloroethyl vinyl ether							<1		<1				<1
Benzene							<1		<1				<1
Bromodichloromethane							32		28				32
Bromoform							<1		<1				<1
Bromomethane							<1		<1				<1
Carbon tetrachloride							<1		<1				<1
Chlorobenzene							<1		<1				<1
Chloroethane							<1		<1				<1
Chloroform							90		55				90
Chloromethane							<1		<1				<1
cis-1,3-Dichloropropene							<1		<1				<1
Dibromochloromethane							6		7				7
Ethylbenzene							<1		<1				<1
Methylene chloride							<1		<1				<1
Tetrachloroethene							<1		<1				<1
Toluene							<1		<1				<1
trans-1,2-Dichloroethene							<0.5		<0.5				<0.5
trans-1,3-Dichloropropene							<1		<1				<1
Trichloroethene							<1		<1				<1
Trichlorofluoromethane							<2		<2				<2
Vinyl chloride							<1		<1				<1
Acrolein							<2						<2
Acrylonitrile							<2						<2



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**RP-1 (M-001B) Effluent Remaining Priority Pollutants**

Table 18b

RP-1 (M-001B) Effluent Base/Neutral and Acid Extractibles (EPA Method 625), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,2,4-Trichlorobenzene							<1		<1				<1
1,2-Dichlorobenzene							<1		<1				<1
1,3-Dichlorobenzene							<1		<1				<1
1,4-Dichlorobenzene							<1		<1				<1
2,4,6-Trichlorophenol							<1		<1				<1
2,4-Dichlorophenol							<2		<2				<2
2,4-Dimethylphenol							<1		<1				<1
2,4-Dinitrophenol							<3		<3				<3
2,4-Dinitrotoluene							<1		<1				<1
2,6-Dinitrotoluene							<2		<2				<2
2-Chloronaphthalene							<1		<1				<1
2-Chlorophenol							<1		<1				<1
2-Methyl-4,6-dinitrophenol							<2		<2				<2
2-Nitrophenol							<1		<1				<1
3,3-Dichlorobenzidine							<5		<5				<5
4-Bromophenyl phenyl ether							<1		<1				<1
4-Chloro-3-methylphenol							<1		<1				<1
4-Chlorophenyl phenyl ether							<1		<1				<1
4-Nitrophenol							<3		<3				<3
Acenaphthene							<1		<1				<1
Acenaphthylene							<1		<1				<1
Anthracene							<1		<1				<1
Azobenzene							<1		<1				<1
Benidine							<5		<5				<5
Benzo(a)anthracene							<5		<5				<5
Benzo(a)pyrene							<1		<1				<1
Benzo(b)fluoranthene							<1		<1				<1
Benzo(g,h,i)perylene							<2		<2				<2
Benzo(k)fluoranthene							<1		<1				<1
Bis(2-chloroethoxy)methane							<2		<2				<2
Bis(2-chloroethyl)ether							<1		<1				<1
Bis(2-chloroisopropyl)ether							<1		<1				<1
Bis(2-ethylhexyl)phthalate	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Butyl benzyl phthalate							<1		<1				<1
Chrysene							<1		<1				<1
Dibenzo(a,h)anthracene							<1		<1				<1
Diethyl phthalate							<2		<2				<2
Dimethyl phthalate							<1		<1				<1
Di-n-butyl phthalate							<1		<1				<1
Di-n-octyl phthalate							<1		<1				<1
Fluoranthene							<1		<1				<1
Fluorene							<1		<1				<1
Hexachlorobenzene							<1		<1				<1
Hexachlorobutadiene							<1		<1				<1
Hexachlorocyclopentadiene							<5		<5				<5
Hexachloroethane							<1		<1				<1
Indeno(1,2,3-cd)pyrene							<2		<2				<2
Isophorone							<1		<1				<1
Naphthalene							<1		<1				<1
Nitrobenzene							<1		<1				<1
N-Nitrosodimethylamine							<1		<1				<1
N-Nitroso-di-n-propylamine							<1		<1				<1
N-Nitrosodiphenylamine							<1		<1				<1
Pentachlorophenol							<2		<2				<2
Phenanthrene							<1		<1				<1
Phenol							<1		<1				<1
Pyrene							<1		<1				<1



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**RP-1 (M-001B) Effluent Remaining Priority Pollutants**

**Table 18c**

**RP-1 (M-001B) Effluent Pesticides (EPA Method 608), µg/L**

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
4,4-DDD							<0.006						<0.006
4,4-DDE							<0.006						<0.006
4,4-DDT							<0.008						<0.008
Aldrin							<0.004						<0.004
Alpha-BHC							<0.008						<0.008
Beta-BHC							<0.005						<0.005
Delta-BHC							<0.007						<0.007
Dieldrin							<0.006						<0.006
Endosulfan I							<0.01						<0.01
Endosulfan II							<0.007						<0.007
Endosulfan Sulfate							<0.009						<0.009
Endrin							<0.009						<0.009
Endrin aldehyde							<0.006						<0.006
Gamma-BHC							<0.01						<0.01
Heptachlor							<0.006						<0.006
Heptachlor epoxide							<0.007						<0.007
Chlordane							<0.1						<0.1
PCB-1016							<0.5						<0.5
PCB-1221							<0.5						<0.5
PCB-1232							<0.5						<0.5
PCB-1242							<0.5						<0.5
PCB-1248							<0.5						<0.5
PCB-1254							<0.5						<0.5
PCB-1260							<0.5						<0.5
Toxaphene							<0.5						<0.5
<b>RP-1 (M-001B) Effluent Semiannual Dioxins &amp; Furans, pg/L (reported values based on detection limit)</b>													
2,3,7,8-TetraCDD							<5						<5.0

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**RP-1/RP-4 (M-002A) Effluent Remaining Priority Pollutants**

Table 19a

**RP-1/RP-4 (M-002A) Effluent Remaining Priority Pollutant Metals, µg/L**

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
Beryllium (Be)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium (Tl)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

**RP-1/RP-4 (M-002A) Effluent Volatile Organics (EPA Methods 624, 601/602), µg/L**

1,1,1-Trichloroethane							<1	<1					<1
1,1,2,2-Tetrachloroethane							<0.5	<0.5					<0.5
1,1,2-Trichloroethane							<1	<1					<1
1,1-Dichloroethane							<0.5	<0.5					<0.5
1,1-Dichloroethene							<1	<1					<1
1,2-Dichlorobenzene							<1	<1					<1
1,2-Dichloroethane							<1	<1					<1
1,2-Dichloropropane							<0.5	<0.5					<0.5
1,3-Dichlorobenzene							<1	<1					<1
1,4-Dichlorobenzene							<1	<1					<1
2-Chloroethyl vinyl ether							<1	<1					<1
Benzene							<1	<1					<1
Bromodichloromethane							31	33					33
Bromoform							<1	<1					<1
Bromomethane							<1	<1					<1
Carbon tetrachloride							<1	<1					<1
Chlorobenzene							<1	<1					<1
Chloroethane							<1	<1					<1
Chloroform							78	67					78
Chloromethane							<1	<1					<1
cis-1,3-Dichloropropene							<1	<1					<1
Dibromochloromethane							7	9					9
Ethylbenzene							<1	<1					<1
Methylene chloride							<1	<1					<1
Tetrachloroethene							<1	<1					<1
Toluene							<1	<1					<1
trans-1,2-Dichloroethene							<0.5	<0.5					<0.5
trans-1,3-Dichloropropene							<1	<1					<1
Trichloroethene							<1	<1					<1
Trichlorofluoromethane							<2	<2					<2
Vinyl chloride							<1	<1					<1
Acrolein							<2						<2
Acrylonitrile							<2						<2

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**RP-1/RP-4 (M-002A) Effluent Remaining Priority Pollutants**

Table 19b

RP-1/RP-4 (M-002A) Effluent Base/Neutral and Acid Extractibles (EPA Method 625), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,2,4-Trichlorobenzene							<1	<1					<1
1,2-Dichlorobenzene							<1	<1					<1
1,3-Dichlorobenzene							<1	<1					<1
1,4-Dichlorobenzene							<1	<1					<1
2,4,6-Trichlorophenol							<1	<1					<1
2,4-Dichlorophenol							<2	<2					<2
2,4-Dimethylphenol							<1	<1					<1
2,4-Dinitrophenol							<3	<3					<3
2,4-Dinitrotoluene							<1	<1					<1
2,6-Dinitrotoluene							<2	<2					<2
2-Chloronaphthalene							<1	<1					<1
2-Chlorophenol							<1	<1					<1
2-Methyl-4,6-dinitrophenol							<2	<2					<2
2-Nitrophenol							<1	<1					<1
3,3-Dichlorobenzidine							<5	<5					<5
4-Bromophenyl phenyl ether							<1	<1					<1
4-Chloro-3-methylphenol							<1	<1					<1
4-Chlorophenyl phenyl ether							<1	<1					<1
4-Nitrophenol							<3	<3					<3
Acenaphthene							<1	<1					<1
Acenaphthylene							<1	<1					<1
Anthracene							<1	<1					<1
Azobenzene							<1	<1					<1
Benzidine							<5	<5					<5
Benzo(a)anthracene							<5	<5					<5
Benzo(a)pyrene							<1	<1					<1
Benzo(b)fluoranthene							<1	<1					<1
Benzo(g,h,i)perylene							<2	<2					<2
Benzo(k)fluoranthene							<1	<1					<1
Bis(2-chloroethoxy)methane							<2	<2					<2
Bis(2-chloroethyl)ether							<1	<1					<1
Bis(2-chloroisopropyl)ether							<1	<1					<1
Bis(2-ethylhexyl)phthalate	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Butyl benzyl phthalate							<1	<1					<1
Chrysene							<1	<1					<1
Dibenzo(a,h)anthracene							<1	<1					<1
Diethyl phthalate							<2	<2					<2
Dimethyl phthalate							<1	<1					<1
D-n-butyl phthalate							<1	<1					<1
Di-n-octyl phthalate							<1	<1					<1
Fluoranthene							<1	<1					<1
Fluorene							<1	<1					<1
Hexachlorobenzene							<1	<1					<1
Hexachlorobutadiene							<1	<1					<1
Hexachlorocyclopentadiene							<5	<5					<5
Hexachloroethane							<1	<1					<1
Indeno(1,2,3-cd)pyrene							<2	<2					<2
Isophorone							<1	<1					<1
Naphthalene							<1	<1					<1
Nitrobenzene							<1	<1					<1
N-Nitrosodimethylamine							<1	<1					<1
N-Nitroso-di-n-propylamine							<1	<1					<1
N-Nitrosodiphenylamine							<1	<1					<1
Pentachlorophenol							<2	<2					<2
Phenanthrene							<1	<1					<1
Phenol							<1	<1					<1
Pyrene							<1	<1					<1

**INLAND EMPIRE UTILITIES AGENCY**

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**RP-1/RP-4 (M-002A) Effluent Remaining Priority Pollutants**

**Table 19c**

**RP-1/RP-4 (M-002A) Effluent Pesticides (EPA Method 608), µg/L**

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
4,4-DDD							<0.006	<0.006					<0.006
4,4-DDE							<0.006	<0.006					<0.006
4,4-DDT							<0.008	<0.008					<0.008
Aldrin							<0.004	<0.004					<0.004
Alpha-BHC							<0.008	<0.008					<0.008
Beta-BHC							<0.005	<0.005					<0.005
Delta-BHC							<0.007	<0.007					<0.007
Dieldrin							<0.006	<0.006					<0.006
Endosulfan I							<0.01	<0.01					<0.01
Endosulfan II							<0.007	<0.007					<0.007
Endosulfan Sulfate							<0.009	<0.009					<0.009
Endrin							<0.009	<0.009					<0.009
Endrin aldehyde							<0.006	<0.006					<0.006
Gamma-BHC							<0.01	<0.01					<0.01
Heptachlor							<0.006	<0.006					<0.006
Heptachlor epoxide							<0.007	<0.007					<0.007
Chlordane							<0.1						<0.1
PCB-1016							<0.5						<0.5
PCB-1221							<0.5						<0.5
PCB-1232							<0.5						<0.5
PCB-1242							<0.5						<0.5
PCB-1248							<0.5						<0.5
PCB-1254							<0.5						<0.5
PCB-1260							<0.5						<0.5
Toxaphene							<0.5						<0.5
<b>RP-1/RP-4 (M-002A) Effluent Semiannual Dioxins &amp; Furans, pg/L (reported values based on detection limit)</b>													
2,3,7,8-TetraCDD							<5						<5.00

**INLAND EMPIRE UTILITIES AGENCY**

**Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2014 NPDES Annual Report  
RP-5 (M-003) Effluent Remaining Priority Pollutants**

Table 20a

**RP-5 (M-003) Effluent Remaining Priority Pollutant Metals, µg/L**

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
Beryllium (Be)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium (Tl)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

**RP-5 (M-003) Effluent Volatile Organics (EPA Methods 624, 601/602), µg/L**

1,1,1-Trichloroethane			<1				<1						<1
1,1,2,2-Tetrachloroethane			<0.5				<0.5						<0.5
1,1,2-Trichloroethane			<1				<1						<1
1,1-Dichloroethane			<0.5				<0.5						<0.5
1,1-Dichloroethene			<1				<1						<1
1,2-Dichlorobenzene			<1				<1						<1
1,2-Dichloroethane			<1				<1						<1
1,2-Dichloropropane			<0.5				<0.5						<0.5
1,3-Dichlorobenzene			<1				<1						<1
1,4-Dichlorobenzene			<1				<1						<1
2-Chloroethyl vinyl ether			<1				<1						<1
Benzene			<1				<1						<1
Bromodichloromethane			26				36						36
Bromoform			<1				<1						<1
Bromomethane			<1				<1						<1
Carbon tetrachloride			<1				<1						<1
Chlorobenzene			<1				<1						<1
Chloroethane			<1				<1						<1
Chloroform			38				64						64
Chloromethane			<1				<1						<1
cis-1,3-Dichloropropene			<1				<1						<1
Dibromochloromethane			9				12						12
Ethylbenzene			<1				<1						<1
Methylene chloride			<1				<1						<1
Tetrachloroethene			<1				<1						<1
Toluene			<1				<1						<1
trans-1,2-Dichloroethene			<0.5				<0.5						<0.5
trans-1,3-Dichloropropene			<1				<1						<1
Trichloroethene			<1				<1						<1
Trichlorofluoromethane			<2				<2						<2
Vinyl chloride			<1				<1						<1
Acrolein							<2						<2
Acrylonitrile							<2						<2

**INLAND EMPIRE UTILITIES AGENCY**

**Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2014 NPDES Annual Report**

**RP-5 (M-003) Effluent Remaining Priority Pollutants**

Table 20b

RP-5 (M-003) Effluent Base/Neutral and Acid Extractibles (EPA Method 625), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,2,4-Trichlorobenzene							<1						<1
1,2-Dichlorobenzene							<1						<1
1,3-Dichlorobenzene							<1						<1
1,4-Dichlorobenzene							<1						<1
2,4,6-Trichlorophenol							<1						<1
2,4-Dichlorophenol							<2						<2
2,4-Dimethylphenol							<1						<1
2,4-Dinitrophenol							<3						<3
2,4-Dinitrotoluene							<1						<1
2,6-Dinitrotoluene							<2						<2
2-Chloronaphthalene							<1						<1
2-Chlorophenol							<1						<1
2-Methyl-4,6-dinitrophenol							<2						<2
2-Nitrophenol							<1						<1
3,3-Dichlorobenzidine							<5						<5
4-Bromophenyl phenyl ether							<1						<1
4-Chloro-3-methylphenol							<1						<1
4-Chlorophenyl phenyl ether							<1						<1
4-Nitrophenol							<3						<3
Acenaphthene							<1						<1
Acenaphthylene							<1						<1
Anthracene							<1						<1
Azobenzene							<1						<1
Benzidine							<5						<5
Benzo(a)anthracene							<5						<5
Benzo(a)pyrene							<1						<1
Benzo(b)fluoranthene							<1						<1
Benzo(g,h,i)perylene							<2						<2
Benzo(k)fluoranthene							<1						<1
Bis(2-chloroethoxy)methane							<2						<2
Bis(2-chloroethyl)ether							<1						<1
Bis(2-chloroisopropyl)ether							<1						<1
Bis(2-ethylhexyl)phthalate	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Butyl benzyl phthalate							<1						<1
Chrysene							<1						<1
Dibenzo(a,h)anthracene							<1						<1
Diethyl phthalate							<2						<2
Dimethyl phthalate							<1						<1
Di-n-butyl phthalate							<1						<1
Di-n-octyl phthalate							<1						<1
Fluoranthene							<1						<1
Fluorene							<1						<1
Hexachlorobenzene							<1						<1
Hexachlorobutadiene							<1						<1
Hexachlorocyclopentadiene							<5						<5
Hexachloroethane							<1						<1
Indeno(1,2,3-cd)pyrene							<2						<2
Isophorone							<1						<1
Naphthalene							<1						<1
Nitrobenzene							<1						<1
N-Nitrosodimethylamine							<1						<1
N-Nitroso-di-n-propylamine							<1						<1
N-Nitrosodiphenylamine							<1						<1
Pentachlorophenol							<2						<2
Phenanthrene							<1						<1
Phenol							<1						<1
Pyrene							<1						<1

**INLAND EMPIRE UTILITIES AGENCY**

**Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2014 NPDES Annual Report  
RP-5 (M-003) Effluent Remaining Priority Pollutants**

Table 20c

**RP-5 (M-003) Effluent Pesticides (EPA Method 608), µg/L**

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
4,4-DDD							<0.006						<0.006
4,4-DDE							<0.006						<0.006
4,4-DDT							<0.008						<0.008
Aldrin							<0.004						<0.004
Alpha-BHC							<0.008						<0.008
Beta-BHC							<0.005						<0.005
Delta-BHC							<0.007						<0.007
Dieldrin							<0.006						<0.006
Endosulfan I							<0.01						<0.01
Endosulfan II							<0.007						<0.007
Endosulfan Sulfate							<0.009						<0.009
Endrin							<0.009						<0.009
Endrin aldehyde							<0.006						<0.006
Gamma-BHC							<0.01						<0.01
Heptachlor							<0.006						<0.006
Heptachlor epoxide							<0.007						<0.007
Chlordane							<0.1						<0.1
PCB-1016							<0.5						<0.5
PCB-1221							<0.5						<0.5
PCB-1232							<0.5						<0.5
PCB-1242							<0.5						<0.5
PCB-1248							<0.5						<0.5
PCB-1254							<0.5						<0.5
PCB-1260							<0.5						<0.5
Toxaphene							<0.5						<0.5
<b>RP-5 (M-003) Effluent Semiannual Dioxins &amp; Furans, pg/L (reported values based on detection limit)</b>													
2,3,7,8-TetraCDD	<2						3						3

**INLAND EMPIRE UTILITIES AGENCY**

**Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2014 NPDES Annual Report  
CCWRF (M-004) Effluent Remaining Priority Pollutants**

Table 21a

**CCWRF (M-004) Effluent Remaining Priority Pollutant Metals, µg/L**

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
Beryllium (Be)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium (Tl)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

**CCWRF (M-004) Effluent Volatile Organics (EPA Methods 624, 601/602), µg/L**

1,1,1-Trichloroethane							<1		<1				<1
1,1,2,2-Tetrachloroethane							<0.5		<0.5				<0.5
1,1,2-Trichloroethane							<1		<1				<1
1,1-Dichloroethane							<0.5		<0.5				<0.5
1,1-Dichloroethene							<1		<1				<1
1,2-Dichlorobenzene							<1		<1				<1
1,2-Dichloroethane							<1		<1				<1
1,2-Dichloropropane							<0.5		<0.5				<0.5
1,3-Dichlorobenzene							<1		<1				<1
1,4-Dichlorobenzene							<1		<1				<1
2-Chloroethyl vinyl ether							<1		<1				<1
Benzene							<1		<1				<1
Bromodichloromethane							28		35				35
Bromoform							<1		9				9
Bromomethane							<1		<1				<1
Carbon tetrachloride							<1		<1				<1
Chlorobenzene							<1		<1				<1
Chloroethane							<1		<1				<1
Chloroform							45		22				45
Chloromethane							<1		<1				<1
cis-1,3-Dichloropropene							<1		<1				<1
Dibromochloromethane							10		33				33
Ethylbenzene							<1		<1				<1
Methylene chloride							<1		<1				<1
Tetrachloroethene							<1		<1				<1
Toluene							<1		<1				<1
trans-1,2-Dichloroethene							<0.5		<0.5				<0.5
trans-1,3-Dichloropropene							<1		<1				<1
Trichloroethene							<1		<1				<1
Trichlorofluoromethane							<2		<2				<2
Vinyl chloride							<1		<1				<1
Acrolein							<2						<2
Acrylonitrile							<2						<2



INLAND EMPIRE UTILITIES AGENCY

Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2014 NPDES Annual Report  
 CCWRF (M-004) Effluent Remaining Priority Pollutants

Table 21b

CCWRF (M-004) Effluent Base/Neutral and Acid Extractibles (EPA Method 625), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,2,4-Trichlorobenzene							<1		<1				<1
1,2-Dichlorobenzene							<1		<1				<1
1,3-Dichlorobenzene							<1		<1				<1
1,4-Dichlorobenzene							<1		<1				<1
2,4,6-Trichlorophenol							<1		<1				<1
2,4-Dichlorophenol							<2		<2				<2
2,4-Dimethylphenol							<1		<1				<1
2,4-Dinitrophenol							<3		<3				<3
2,4-Dinitrotoluene							<1		<1				<1
2,6-Dinitrotoluene							<2		<2				<2
2-Chloronaphthalene							<1		<1				<1
2-Chlorophenol							<1		<1				<1
2-Methyl-4,6-dinitrophenol							<2		<2				<2
2-Nitrophenol							<1		<1				<1
3,3-Dichlorobenzidine							<5		<5				<5
4-Bromophenyl phenyl ether							<1		<1				<1
4-Chloro-3-methylphenol							<1		<1				<1
4-Chlorophenyl phenyl ether							<1		<1				<1
4-Nitrophenol							<3		<3				<3
Acenaphthene							<1		<1				<1
Acenaphthylene							<1		<1				<1
Anthracene							<1		<1				<1
Azobenzene							<1		<1				<1
Benzidine							<5		<5				<5
Benzo(a)anthracene							<5		<5				<5
Benzo(a)pyrene							<1		<1				<1
Benzo(b)fluoranthene							<1		<1				<1
Benzo(g,h,i)perylene							<2		<2				<2
Benzo(k)fluoranthene							<1		<1				<1
Bis(2-chloroethoxy)methane							<2		<2				<2
Bis(2-chloroethyl)ether							<1		<1				<1
Bis(2-chloroisopropyl)ether							<1		<1				<1
Bis(2-ethylhexyl)phthalate	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Butyl benzyl phthalate							<1		<1				<1
Chrysene							<1		<1				<1
Dibenzo(a,h)anthracene							<1		<1				<1
Diethyl phthalate							<2		7				7
Dimethyl phthalate							<1		<1				<1
Di-n-butyl phthalate							<1		<1				<1
Di-n-octyl phthalate							<1		<1				<1
Fluoranthene							<1		<1				<1
Fluorene							<1		<1				<1
Hexachlorobenzene							<1		<1				<1
Hexachlorobutadiene							<1		<1				<1
Hexachlorocyclopentadiene							<5		<5				<5
Hexachloroethane							<1		<1				<1
Indeno(1,2,3-cd)pyrene							<2		<2				<2
Isophorone							<1		<1				<1
Naphthalene							<1		<1				<1
Nitrobenzene							<1		<1				<1
N-Nitrosodimethylamine							<1		<1				<1
N-Nitroso-di-n-propylamine							<1		<1				<1
N-Nitrosodiphenylamine							<1		<1				<1
Pentachlorophenol							<2		<2				<2
Phenanthrene							<1		<1				<1
Phenol							<1		<1				<1
Pyrene							<1		<1				<1

**INLAND EMPIRE UTILITIES AGENCY**

**Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2014 NPDES Annual Report  
CCWRF (M-004) Effluent Remaining Priority Pollutants**

**Table 21c**

**CCWRF (M-004) Effluent Pesticides (EPA Method 608), µg/L**

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
4,4-DDD							<0.006						<0.006
4,4-DDE							<0.006						<0.006
4,4-DDT							<0.008						<0.008
Aldrin							<0.004						<0.004
Alpha-BHC							<0.008						<0.008
Beta-BHC							<0.005						<0.005
Delta-BHC							<0.007						<0.007
Dieldrin							<0.006						<0.006
Endosulfan I							<0.01						<0.01
Endosulfan II							<0.007						<0.007
Endosulfan Sulfate							<0.009						<0.009
Endrin							<0.009						<0.009
Endrin aldehyde							<0.006						<0.006
Gamma-BHC							<0.01						<0.01
Heptachlor							<0.006						<0.006
Heptachlor epoxide							<0.007						<0.007
Chlordane							<0.1						<0.1
PCB-1016							<0.5						<0.5
PCB-1221							<0.5						<0.5
PCB-1232							<0.5						<0.5
PCB-1242							<0.5						<0.5
PCB-1248							<0.5						<0.5
PCB-1254							<0.5						<0.5
PCB-1260							<0.5						<0.5
Toxaphene							<0.5						<0.5
<b>CCWRF (M-004) Effluent Semiannual Dioxins &amp; Furans, pg/L (reported values based on detection limit)</b>													
2,3,7,8-TetraCDD	<2						<2						<2

## **APPENDIX C**

### **RECYCLED WATER**

### **USERS AND DEMANDS**

**APPENDIX C  
RECYCLED WATER USES AND DEMANDS  
FY 2014/15**

City of Chino		
Customer Name	Usage Type	Total Usage (AF)
C W FARMS IV	Agricultural	520.11
Cal Poly Pomona	Agricultural	832.20
Cleveland Farm	Agricultural	308.19
CLEVELAND FARM #1	Agricultural	539.80
CW Farms	Agricultural	736.45
CW Farms II	Agricultural	97.65
CW Farms III	Agricultural	391.63
H PLACENCIA NURSERY	Agricultural	84.95
La Brucherie Farms	Agricultural	376.56
Nyenhuis Dairy	Agricultural	701.18
Superior Sod	Agricultural	354.17
Superior Sod #4	Agricultural	168.65
SUPERIOR SOD AIRPORT #1	Agricultural	287.28
Viaverde Nursery	Agricultural	3.62
WESTSTEYN DAIRY	Agricultural	898.13
Subtotal Agricultural Usage		6,300.56
BOBERG ENGINEERING	Construction	59.52
BOBERG ENGINEERING	Construction	0.37
BRIDGE HOUSING CORPORATION	Construction	6.15
CLARK & SONS CONTRACTING	Construction	30.75
DR Horton	Construction	1.49
Earth Basics	Construction	7.11
HENKELS & MC COY INC	Construction	2.49
HERMAN WEISSKER INC	Construction	0.52
HILLWOOD CONSTRUCTION	Construction	10.47
K HOVNANIAN HOMES	Construction	0.81
KB Homes	Construction	5.05
LENNAR HOMES OF CA	Construction	8.27
LENNAR HOMES OF CA	Construction	9.29
Lewis Operating Corp	Construction	21.56
MAGNUS PACIFIC CONSTRUCTION	Construction	2.61
MC KENNA GENERAL ENGINEERING	Construction	3.74
ORANGE COUNTY WATER DISTRICT	Construction	0.31
PARK WEST RESCOM INC	Construction	43.56
PARKCREST CONSTRUCTION INC	Construction	2.93
PARKCREST CONSTRUCTION INC	Construction	3.67
Portrait Construction, Inc.	Construction	9.28
SANDERS HYDROSEEDING INC	Construction	0.69
Sares Regis Vintage Apartments	Construction	3.64
Standard Pacific	Construction	5.47
STANDARD PACIFIC OF OC	Construction	0.79
STICE COMPANY INC	Construction	4.69

**APPENDIX C  
RECYCLED WATER USES AND DEMANDS  
FY 2014/15**

City of Chino		
Customer Name	Usage Type	Total Usage (AF)
TELEPHONE AVE-SIEROTY BLDG	Construction	1.81
WATSON LAND COMPANY	Construction	7.65
WATSON LAND COMPANY	Construction	10.67
Subtotal Construction Usage		265.33
OLS ENERGY CHINO (WAS CALIF COGEN)	Industrial	120.14
Repet Inc	Industrial	19.61
Subtotal Industrial Usage		139.75
AGAVE NEIGHBORHOOD ASSOCIATION	Landscape	10.44
American Power Conversion	Landscape	14.18
Cal Trans	Landscape	7.94
Central Business Owners Assoc	Landscape	4.92
Central Park Industrial PTNRS	Landscape	24.25
Chaffey College	Landscape	9.77
Chandler Real Properties	Landscape	3.20
Chino Development Corporation	Landscape	81.98
Chino Hills Ford	Landscape	7.28
Chino Industrial Commons	Landscape	2.55
Chino Industrial Commons-Owners	Landscape	2.86
CITRUS COMMONS	Landscape	5.74
City of Chino	Landscape	179.19
City of Chino Ayala Park	Landscape	100.65
CITY OF CHINO AYALA PARK	Landscape	12.39
COLLEGE PARK COMMUNITES	Landscape	8.92
College Park Community Assoc	Landscape	44.71
College Park Community Assoc 1	Landscape	6.39
College Park Communtiy Assoc 2	Landscape	7.99
Collins Company	Landscape	1.32
Colonial Electric	Landscape	0.99
CP BUSINESS PARK PARTNERS LP	Landscape	9.51
CT Storage-Chino LLC	Landscape	3.82
DBRS Medical System	Landscape	0.80
Dept. of Corrections State	Landscape	57.82
DO + ABLE Product	Landscape	5.32
DR Horton	Landscape	3.39
DSC Logistics	Landscape	11.48
EDE GROUP INC	Landscape	2.53
El Prado Rd Business Owners	Landscape	4.22
EQUIPMENT WHOLESALERS	Landscape	1.27
EURO-PRO OPERATING INC	Landscape	6.86
EVERBLOOM ENTERPRISE LLC	Landscape	4.24
Evergreen at The Preserve	Landscape	11.41
Evergreen at the Preserve (222671-2)	Landscape	0.58

**APPENDIX C  
RECYCLED WATER USES AND DEMANDS  
FY 2014/15**

City of Chino		
Customer Name	Usage Type	Total Usage (AF)
Excel INC	Landscape	4.98
Farrand Enterprises	Landscape	2.28
Funding Resources	Landscape	1.79
FUSION 5 CONDO ASSOCIATION	Landscape	3.68
Garrett Concrete	Landscape	2.91
GILBERT WEST	Landscape	8.25
Gro-Power Inc	Landscape	2.01
HARPER CONSTRUCTION	Landscape	4.46
HILL PHOENIX INC	Landscape	5.50
HYUNDAI-KIA AMERICA	Landscape	1.34
Jasmine Willows HOA	Landscape	2.61
K-8 SCHOOL (PRESERVE)	Landscape	17.70
KB Homes	Landscape	48.53
KB Homes	Landscape	3.32
Kinfine USA Inc	Landscape	3.77
LENNAR HOMES OF CA	Landscape	14.79
LENNAR HOMES OF CA	Landscape	137.06
LENNAR HOMES OF CA	Landscape	2.10
Lewis Operating Corp	Landscape	33.85
Lewis Operating Corp	Landscape	5.05
Majestic Management	Landscape	7.73
MC KESSON MEDICAL	Landscape	7.46
MEF Realty LLC	Landscape	2.35
MONTE VISTA #3	Landscape	11.57
National Distribution Center	Landscape	37.21
NEXGRILL INDUSTRIES INC	Landscape	4.05
NORCO INJECTION MOLDING	Landscape	10.56
Oltmans Construction	Landscape	5.32
OMNIA ITALIAN DESIGN	Landscape	7.98
Panattoni Construction	Landscape	11.08
Preserve Maintenance Corp	Landscape	29.03
Preserve Master Community	Landscape	1.26
Preserve Master Corp	Landscape	16.46
PRESERVE MASTER MAINTENANCE	Landscape	70.71
Quetico Schaefer Properties	Landscape	4.36
RANCHO DEL CHINO LLC	Landscape	5.23
Redbuilt LLC	Landscape	1.85
Redwood Business Center	Landscape	4.17
Richardson, Don	Landscape	107.69
ROADWAY ENGINEERING	Landscape	0.14
SADDLE CREEK CORPORATION	Landscape	6.21
San Bdn County Fairgrounds	Landscape	15.89

**APPENDIX C  
RECYCLED WATER USES AND DEMANDS  
FY 2014/15**

<b>City of Chino</b>		
<b>Customer Name</b>	<b>Usage Type</b>	<b>Total Usage (AF)</b>
Sares Regis Vintage Apartments	Landscape	24.58
SCOTT ENGINEERING	Landscape	1.75
SEACOUNTRY HOMES	Landscape	11.35
Shamrock Marketing	Landscape	0.82
SOUTHERN CALIFORNIA EDISON	Landscape	0.50
Standard Pacific	Landscape	10.02
Standard Pacific	Landscape	1.74
Standard Pacific	Landscape	6.16
STANDARD PACIFIC OF OC	Landscape	1.55
STANDARD PACIFIC OF OC	Landscape	11.01
Sundance Spas	Landscape	13.88
Tetherwinds Neighborhood	Landscape	32.66
The Campus Owners Corp	Landscape	6.97
The Preserve Master Community	Landscape	31.21
Trammel Crow So Cal Inc	Landscape	16.98
UMA ENTERPRISES INC	Landscape	3.32
Valbruna	Landscape	2.06
VIRAMONTES EXPRESS	Landscape	21.55
W L Homes	Landscape	26.24
Warehouse Technology	Landscape	11.72
WATSON LAND COMPANY	Landscape	14.52
WELLESLEY NEIGHBORHOOD	Landscape	4.05
WESTERN NATION CONTRACTORS	Landscape	3.71
Woodbury Neighborhood Association	Landscape	6.18
Yin, Zhihua	Landscape	2.43
Yorba Industrial Center	Landscape	12.78
Yoshimura R&D	Landscape	2.80
Yoshimura Racing LLC	Landscape	0.57
	<b>Subtotal Landscape Usage</b>	<b>1,618.27</b>
	<b>City of Chino Total Usage</b>	<b>8,323.92</b>

**APPENDIX C  
RECYCLED WATER USES AND DEMANDS  
FY 2014/15**

City of Chino Hills		
Customer Name	Usage Type	Total Usage (AF)
Monte Vista Farmer (1)	Agricultural	12.65
Subtotal Agricultural Usage		12.65
Altfillisch Contractors	Construction	58.26
Altfillisch Contractors	Construction	53.07
D'Vargas Construction	Construction	1.67
Fairfield Chino Hills LP	Construction	0.58
Subtotal Construction Usage		113.58
7-Eleven (15450 Fairfield Ranch Rd)	Landscape	2.93
Albertsons	Landscape	8.89
Artisan	Landscape	34.52
Big League Dreams	Landscape	60.47
BRR HOA	Landscape	44.97
C.U.S.D.	Landscape	39.74
CalTrans	Landscape	11.15
Centex	Landscape	56.81
Subtotal Agricultural Usage	Landscape	11.57
Chino Hills Business Park	Landscape	23.34
Chino Hills Storage	Landscape	2.20
Chino Valley Fire	Landscape	1.09
City of Chino Hills	Landscape	208.31
Country Club Market Place II	Landscape	3.55
Country Club Villa	Landscape	2.75
Dennys	Landscape	3.23
DZ Properties, Inc.	Landscape	2.59
EGM Management	Landscape	24.13
Fairfield Chino Hills LP	Landscape	1.94
Fairfield Ranch HOA	Landscape	9.86
Felfam,Ltd	Landscape	6.15
Fieldstone	Landscape	2.18
Higgins Ranch Community	Landscape	14.13
Hyoung Corp	Landscape	1.99
Lexington	Landscape	1.40
Los Serranos Golf Course	Landscape	359.30
Los Serranos Ranch Comm. Assoc.	Landscape	11.81
New Vellano	Landscape	356.41
Pine Corp Center (4274439)	Landscape	6.49
Pine Corp Center (4279489)	Landscape	12.32
Ridgegate HOA	Landscape	74.59
Ridgegate Neighborhood Assoc	Landscape	3.76
Rincon Park	Landscape	17.91
Standard Pacific	Landscape	91.23
Sterling Downs Apartments	Landscape	7.43



**APPENDIX C  
RECYCLED WATER USES AND DEMANDS  
FY 2014/15**

<b>City of Chino Hills</b>		
<b>Customer Name</b>	<b>Usage Type</b>	<b>Total Usage (AF)</b>
Sycamore Heights Comm Assoc	Landscape	0.36
Taylor Woodrow	Landscape	14.12
Vellano	Landscape	6.11
Subtotal Construction Usage	Landscape	19.47
Vellano Homeowner	Landscape	124.88
Vista San Juan/ C.C. Medical Center	Landscape	0.29
Subtotal Industrial Usage	Landscape	14.52
	Subtotal Landscape Usage	1,700.86
	<b>City of Chino Hills Total Usage</b>	<b>1,827.08</b>

**APPENDIX C**  
**Recycled Water Users and Demands**  
**FY 2014/15**

<b>Cucamonga Valley Water District (CVWD)</b>		
<b>Customer Name</b>	<b>Usage Type</b>	<b>Total Usage (AF)</b>
James McMinn	Construction	4.21
Oltmans Const	Construction	0.38
Subtotal Construction Usage		4.59
Alta Loma High School	Landscape	46.77
ASAP power sports	Landscape	1.63
Bass Pro Shop	Landscape	24.08
Bradshaw International, Inc	Landscape	31.64
Cabot Industrial Trust	Landscape	13.45
Cal Development LLC	Landscape	19.00
Cal National Bank	Landscape	0.38
CIP Real Estate	Landscape	10.76
City of Fontana	Landscape	15.33
City of Rancho Cucamonga	Landscape	0.29
City of Rancho Cucamonga	Landscape	264.82
Comfort - Pedic Mattress USA	Landscape	1.84
Subtotal Agricultural Usage	Landscape	14.66
CVWD Recycled Water Useage (AF)	Landscape	0.36
Day creek aps	Landscape	41.38
Earth Basics	Landscape	7.82
Etiwanda School District	Landscape	67.02
Exchange Professional Center	Landscape	11.76
Facility Builders & Erectors	Landscape	2.39
Frito Lay Inc.	Landscape	19.90
Harrys Pacific Grill	Landscape	0.50
Haven Rock	Landscape	4.27
Hilemen Development Co.	Landscape	15.75
Home Depot	Landscape	24.32
Life Way Church	Landscape	8.35
Market Place Properties	Landscape	9.46
Milliken Hospitality LLC	Landscape	1.50
Mission Business Center LLC	Landscape	5.56
Murfco INC.	Landscape	0.72
O & S Holdings	Landscape	41.04
O&S(Foothill Crossings)	Landscape	10.16
Oak Creek Ranch Golf Club Inc.	Landscape	517.55
Owens and Minor Distributing inc	Landscape	18.65
pac r cucamonga lp	Landscape	5.62
Pologis	Landscape	11.33
Prologis	Landscape	30.38
PSIP WR Etiwanda LLC	Landscape	29.74
Rackafeller group	Landscape	2.26
Richard Dick & Associates	Landscape	3.72

**APPENDIX C**  
**Recycled Water Users and Demands**  
**FY 2014/15**

<b>Cucamonga Valley Water District (CVWD)</b>		
<b>Customer Name</b>	<b>Usage Type</b>	<b>Total Usage (AF)</b>
San Bernardino County Flood Control	Landscape	0.86
Southern California Edison	Landscape	10.96
Stadium Plaza North	Landscape	8.63
Subtotal Construction Usage	Landscape	12.66
Stanley Steamers	Landscape	1.70
Starbuck's Coffee	Landscape	0.31
Subtotal Industrial Usage	Landscape	1.07
Vega Industries	Landscape	1.77
Victoria Gardens(Shea Homes)	Landscape	19.48
Victoria Gardens(Shea Homes)	Landscape	1.66
Wells Fargo Bank	Landscape	0.71
	Subtotal Landscape Usage	1,395.91
	<b>CVWD Total Usage</b>	<b>1,400.50</b>

**APPENDIX C  
RECYCLED WATER USES AND DEMANDS  
FY 2014/15**

<b>Inland Empire Utilities Agency (IEUA)</b>		
<b>Customer Name</b>	<b>Usage Type</b>	<b>Total Usage (AF)</b>
Genon Energy Plant	Industrial	326.73
IERCF	Industrial	13.80
<b>Subtotal Industrial Usage</b>		<b>340.53</b>
Chino Creek Park Evaporation	Landscape	171.24
Chino Creek Wetlands and Educational Park	Landscape	17.76
ESCI	Landscape	1.43
IEUA Headquarters	Landscape	164.22
<b>Subtotal Landscape Usage</b>		<b>354.65</b>
<b>IEUA Total Usage</b>		<b>695.18</b>

**APPENDIX C  
RECYCLED WATER USES AND DEMANDS  
FY 2014/15**

<b>Monte Vista Elementary School (MVWD)</b>		
<b>Customer Name</b>	<b>Usage Type</b>	<b>Total Usage (AF)</b>
Alma Hoffman Park	Landscape	13.97
Buena Vista Elem School	Landscape	38.78
City Hall	Landscape	3.98
Demonstration Garden	Landscape	1.99
Kingsley Elem School	Landscape	13.55
Kingsley Park	Landscape	11.44
Lehigh Elementary School	Landscape	19.47
Library/City Hall	Landscape	6.79
Montclair Hi School	Landscape	50.45
Montclair Medical Center	Landscape	15.61
Montclair Town Center	Landscape	1.89
Montclair Towncenter HOA	Landscape	32.99
Monte Vista Elementary School	Landscape	15.56
Our Lady of Lourdes Church	Landscape	3.23
Saratoga Park	Landscape	40.42
Subtotal Agricultural Usage	Landscape	7.95
Sunset Park	Landscape	20.53
Wilderness Basin Park	Landscape	9.15
	<b>Subtotal Landscape Usage</b>	<b>307.73</b>
	<b>MVWD Total Usage</b>	<b>307.73</b>

**APPENDIX C  
RECYCLED WATER USES AND DEMANDS  
FY 2014/15**

City of Ontario		
Customer Name	Usage Type	Total Usage (AF)
Bootsma Farm	Agricultural	104.98
Breezy Boots, Inc	Agricultural	76.26
Cleveland Farm	Agricultural	792.81
FRUIT GROWERS SUPPLY	Agricultural	15.38
GH Dairy	Agricultural	42.20
GH Dairy	Agricultural	189.08
LaBrucherie Farm	Agricultural	204.45
Legend Dairies (Petersma)	Agricultural	204.00
Lewis Farms	Agricultural	1,337.80
Li Farm (Western Oriental Growers)	Agricultural	322.17
Li Yuan Farms	Agricultural	253.11
Murai Farm	Agricultural	688.96
Rojo Farms	Agricultural	29.88
Yoog II Farm Inc.	Agricultural	100.47
Subtotal Agricultural Usage		4,361.55
Subtotal Agricultural Usage	Construction	1.24
Tri Pointe Homes	Construction	0.48
Subtotal Construction Usage		1.72
AEG Ontario Arena	Industrial	25.87
Cintas	Industrial	78.80
New Indy Ontario	Industrial	773.51
Subtotal Industrial Usage		878.19
24 Hour Fitness	Landscape	0.79
Acco America	Landscape	1.91
Advanced Innovative Technology	Landscape	1.91
AEG Ontario Arena	Landscape	24.32
Airport Corp. Center @ Centrelake	Landscape	7.67
Airport Corp. Center @ Centrelake	Landscape	3.29
Akzo Nobel Coatings (Haven B)	Landscape	1.11
Archibald & Philadelph (03624103) 2260 S Archibald	Landscape	7.49
Archibald Freeway Center Owners Assoc.	Landscape	7.39
Archibald Freeway Center Owners Assoc.	Landscape	2.43
Bakken Wineville Properties LLC	Landscape	0.38
Bedford Properties	Landscape	7.75
Bellevue Cemetary	Landscape	121.22
BP West Coast Products,LLC #5965	Landscape	0.71
Brookfield Ontario Builders	Landscape	4.25
Cal Trans Do8 ONT	Landscape	26.38
Caliber Collision	Landscape	1.65
Calif Com Cntr Owners (North)	Landscape	39.21
California Commerce Center	Landscape	32.94
CalTrans	Landscape	99.88

**APPENDIX C  
RECYCLED WATER USES AND DEMANDS  
FY 2014/15**

City of Ontario		
Customer Name	Usage Type	Total Usage (AF)
Castle Industries	Landscape	1.67
CBWCD Ely Basin #3	Landscape	2.61
CCC-N	Landscape	86.55
Subtotal Construction Usage	Landscape	10.06
CCC-S	Landscape	55.59
Centrelake Assn	Landscape	55.24
Subtotal Industrial Usage	Landscape	47.74
Chaffey High School (Valley View)	Landscape	37.41
Chevron Land	Landscape	99.07
City of Ontario	Landscape	12.98
City of Ontario (4th/Milliken Parkway)	Landscape	4.63
City of Ontario (Fire Station #6)	Landscape	1.01
City of Ontario (Holt/Guasti East)	Landscape	2.21
City of Ontario (Holt/Guasti West)	Landscape	2.59
City of Ontario (Soccer Complex)	Landscape	50.54
CK Restaurants	Landscape	1.21
Comstock Homes	Landscape	4.46
Concours Plaza	Landscape	6.39
Concours Retail	Landscape	2.73
Corona Elementary School (OMSD)	Landscape	19.21
Customized Distribution	Landscape	14.61
Del Norte Elementary School	Landscape	31.02
Dial Chemical	Landscape	0.43
Dorthy Gibson Continuation School	Landscape	21.00
Doubletree	Landscape	24.07
Dura Coat Powder Coating	Landscape	0.53
Empire Towers	Landscape	16.63
Ferrari Corporate Center LLC	Landscape	8.42
Flags Importer	Landscape	5.90
G & K Services	Landscape	3.80
Galvin Park	Landscape	50.25
Guasti Park	Landscape	64.03
Haliburton	Landscape	5.35
Haven Ave LLC	Landscape	4.68
Hino Motor Manufacturing	Landscape	4.31
HMC Architects	Landscape	5.27
Inland Empire Utilities Agency	Landscape	1.18
JMS Wineville	Landscape	0.92
Kaiser	Landscape	26.59
Kellogg Supply Inc.	Landscape	0.77
Khaloghli, Khosro	Landscape	0.92
Kohls	Landscape	4.69

**APPENDIX C  
RECYCLED WATER USES AND DEMANDS  
FY 2014/15**

City of Ontario		
Customer Name	Usage Type	Total Usage (AF)
Landmark at Ontario Towne LLC	Landscape	23.05
LBA Realty (4 meters)	Landscape	2.57
Lord Baltimore Properties	Landscape	4.57
M. Craitenberger	Landscape	1.16
Majestic Management	Landscape	4.54
Majestic Reality	Landscape	52.87
Mathis Brothers Furniture	Landscape	25.51
Mercedes Benz of Ontario	Landscape	8.91
Mintra Corp	Landscape	7.98
Munoz Park	Landscape	47.19
Nexen Tire America Inc	Landscape	2.89
Niagara Water	Landscape	4.52
OM Guasti	Landscape	7.63
Ont Convention Center	Landscape	19.75
Ont Indusruial Partn	Landscape	5.27
Ont/Mont School Dist - Elem School	Landscape	17.79
Ontario Airport Center	Landscape	26.26
Ontario Center (Founders Garden)	Landscape	35.83
Ontario Collision Center	Landscape	2.10
Ontario Commerce Park	Landscape	7.14
Ontario Convention Center (North)	Landscape	2.63
Ontario Health Education	Landscape	16.86
Ontario Lodging Associates LLC	Landscape	4.07
Ontario Motor Speedway Park	Landscape	17.99
Panattoni Developement (03453746) 2250 S Archibald	Landscape	0.74
Panattoni Development (Best Buy)	Landscape	6.66
Panattoni Development (MT Airport)	Landscape	1.66
Pancal Portfolio, LLC	Landscape	12.55
Parks Dept. (Galanis Park)	Landscape	6.25
Parks Dept. (Galvin Park West)	Landscape	31.65
Parks Dept. (Haven Parkway)	Landscape	1.08
Parks Dept. (Veterans Park)	Landscape	21.19
Parkside Ontario Community Assoc	Landscape	11.82
People Movers	Landscape	1.08
Piemonte 5-story	Landscape	3.61
Piemonte Business Park (04306405)	Landscape	0.50
Piemonte Business Park (04725037)	Landscape	2.83
Piemonte Business Park (04920427)	Landscape	1.89
Piemonte Business Park (04930593)	Landscape	1.78
Piemonte Business Park (04934728)	Landscape	2.77
Pier 1 Imports	Landscape	22.13
Poseidon Ontario Airport Plaza	Landscape	3.27



**APPENDIX C  
RECYCLED WATER USES AND DEMANDS  
FY 2014/15**

<b>City of Ontario</b>		
<b>Customer Name</b>	<b>Usage Type</b>	<b>Total Usage (AF)</b>
Prologis California	Landscape	49.90
Roshan LLC (La Galleria at the Mills)	Landscape	1.62
Ruth Group	Landscape	5.71
Shelby Office Park (PDEV04-006)	Landscape	24.38
Sierra Insulation	Landscape	0.41
Stein & Roitblat Living Trusts	Landscape	1.29
T S Express	Landscape	6.51
Target	Landscape	6.69
Top & Tech	Landscape	0.78
Toyota	Landscape	74.40
Utility Board	Landscape	0.87
Vina Danks Junior High	Landscape	17.45
Vineyard Park	Landscape	19.41
Vineyard Plaza	Landscape	2.28
Vineyard STEM School	Landscape	29.46
Vineyard STEM School	Landscape	115.36
Vintage Apts.	Landscape	9.11
Walmart	Landscape	11.67
Warmington Residential Comm. (04748546)	Landscape	4.58
Wella Mfg	Landscape	2.39
Westwind Park	Landscape	57.02
Whispering Lakes Golf Course	Landscape	660.97
	Subtotal Landscape Usage	2,776.70
	<b>City of Ontario Total Usage</b>	<b>8,018.15</b>

**APPENDIX C  
RECYCLED WATER USES AND DEMANDS  
FY 2014/15**

<b>Recharge</b>		
Customer Name	Usage Type	Total Usage (AF)
7th & 8th Street	Recharge	48
Banana Basin	Recharge	1,148
Brooks Basin	Recharge	1,011
Ely Basin	Recharge	1,751
Hickory Basin	Recharge	2,034
RP-3	Recharge	2,968
San Sevaine No. 5	Recharge	1
Turner Basin	Recharge	948
Victoria Basin	Recharge	931
<b>Recharge Total Usage</b>		<b>10,840</b>

**APPENDIX C  
 RECYCLED WATER USES AND DEMANDS  
 FY 2014/15**

<b>San Bernardino County</b>		
<b>Customer Name</b>	<b>Usage Type</b>	<b>Total Usage (AF)</b>
El Prado Golf Course	Landscape	491.98
El Prado Park	Landscape	878.61
Subtotal Landscape Usage		1,370.59
<b>San Bernardino County Total Usage</b>		<b>1,370.59</b>

**APPENDIX C  
RECYCLED WATER USES AND DEMANDS  
FY 2014/15**

<b>City of Upland</b>		
<b>Customer Name</b>	<b>Usage Type</b>	<b>Total Usage (AF)</b>
Cal - Trans	Construction	0.22
<b>Subtotal Construction Usage</b>		<b>0.22</b>
Bouquet Estates	Landscape	5.37
City of Upland	Landscape	55.94
City of Upland / Memorial Park	Landscape	87.00
City of Upland / Sierra Vista Park	Landscape	26.14
Drydock Depot	Landscape	2.19
Foothill Knolls Elementary	Landscape	25.60
Mountain View Estates	Landscape	15.70
San Antonio Hospital	Landscape	15.46
SCE	Landscape	5.82
Sierra Vista Elementary	Landscape	20.95
Tolle Nursery	Landscape	0.20
Upland Elementary	Landscape	15.24
Upland Hills Country Club	Landscape	335.78
<b>Subtotal Agricultural Usage</b>		<b>13.32</b>
Upland Meadows Estates	Landscape	3.30
Upland Unified School District	Landscape	3.14
Western Inn	Landscape	4.90
<b>Subtotal Landscape Usage</b>		<b>636.07</b>
<b>City of Upland Total Usage</b>		<b>636.29</b>

**INFORMATION  
ITEM**

**3N**

# 1st Quarter Planning & Environmental Compliance Update



*Inland Empire Utilities Agency*  
A MUNICIPAL WATER DISTRICT

November 2015

# Pretreatment & Source Control

## Regional System

- \* Local Limits Study Submitted to RWQCB in Aug. 2015
- \* Recommended keeping 6 local limits (Cr, Cu, Pb, Ni, Zn, TDS)
- \* Remove local limits for Cd and CN
- \* IEUA NPDES Permit reissued Oct. '15 included new limits for:
  - \* Cadmium (RP-1)
  - \* Dioxin (RP-5)
- \* Source identification for Dioxin
- \* Submit amended report





# Pretreatment & Source Control

## North NRWS

- \* Wastewater Disposal Agreement
- \* 38 industries
- \* Industry Capacity Allocation
  - \* 18 exceeded allocation
  - \* 9 exceeded historical maximum

## South Brine Line

- \* Capacity lease/loan pool agreement
- \* SAWPA Remedial Plan follow-up audit
- \* OCSD Ordinance & Local Limits revision
- \* Marketing video and brochure





# Pretreatment & Source Control

	NRWS	IEBL	Regional
Permitted Industries	39	12	25
Enforcement Actions	38	11	31
Significant Non-Compliance	5	1	5
Permits Issued/Renewed	3	9	25
Permits Voided/Revoked	6	0	0

# Regulatory Compliance Update

## **RWQCB**

- \* All facilities – 100% compliance
- \* Reproduction toxicity at RP-1
- \* Facility inspections of RP-5 & CCWRF

## **AQMD**

- \* Notice of violation for RP-5
- \* Facility inspections of RP-5, RP-1 & RP-4

## **SWRCB – DDW**

- \* CDA1
- \* GWR – Total nitrogen at RP-3 basin



# Planning

## **Prado Basin Adaptive Management Plan**

- \* AMP report being finalized, scheduling PHS committee review meeting

## **Santa Ana River Habitat Conservation Plan**

- \* Phase 1 Completed
- \* Phase 2 Hydraulic Impact Modeling - Completion by January 2016

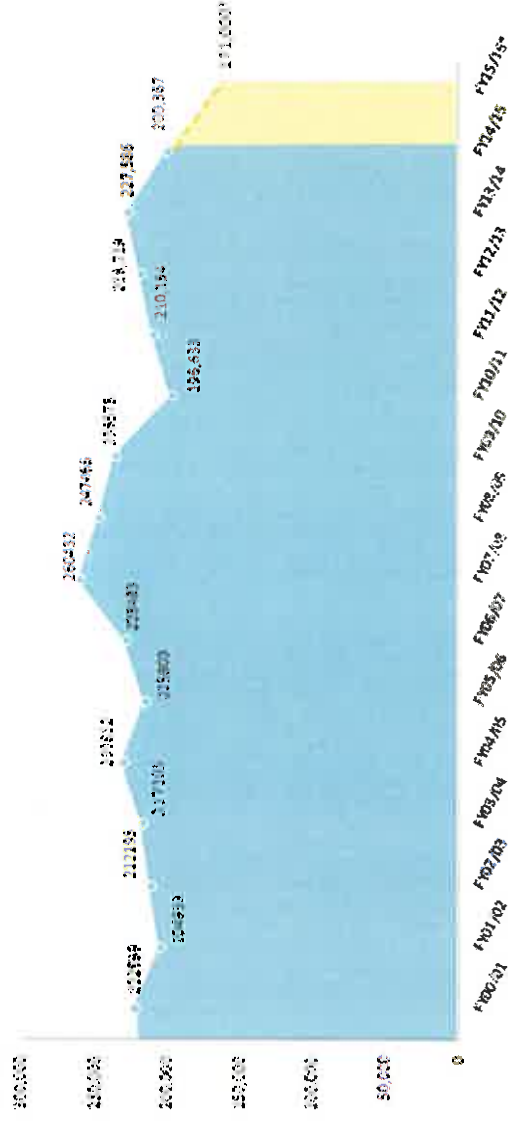
## **Integrated Resources Plan Phase 1**

- ✓ **Completed Tasks:**
  - ✓ Develop IRP goals with stakeholders
  - ✓ Complete baseline water demand forecasts and uncertainty analysis
  - ✓ Performed climate change “stress test” on regional supply strategies
  - ✓ Presenting recommended strategy to Policy November 4
- \* **February 2016: Draft IRP**
- \* **March 2016: IRP Phase 2**

# Water Resources Activities

## FY14/15 Annual Water Production Report

- \* Imported water purchases decreased by 12%
- \* Groundwater production decreased 15%



Projection for FY15/16 based on 25% reduction from FY13/14

Note: Total Water Use Data includes imported water, surface water, groundwater, recycled and desalinated production. Excludes IEUA groundwater recharge



# Water Resources Activities

## Water Supply Allocation Plan (WSAP)

- \* Tier 1 allocation effective July 1, 2015 - June 30, 2016
- \* Sales through August 2014:
  - **CVWD: 26,569 AF** (Cumulative sales of 2,234.6 AF, 8% of WSAP Allocation)
  - **WFA: 27,406 AF** (Cumulative sales of 2,906.4, 11% of WSAP Allocation)
  - **FWC: 7,293 AF** (Cumulative sales of 1,602.3AF, 22% of WSAP Allocation)

# Water Resources Activities

**MWD Foundational Actions Programs**

**State Drought Emergency Water Conservation**

**DWR/SAWPA Prop. 84 Drought Grant**

*The projects completed by the Planning & Environmental Resources Department for the first quarter meets the Agency's Business Goals of Fiscal Responsibility, Water Reliability, Wastewater Management and Environmental Stewardship*

**INFORMATION  
ITEM**

**30**



Date: November 18, 2015

To: The Honorable Board of Directors

Through: Public, Legislative Affairs, and Water Resources Committee (11/11/15)

From: P. Joseph Grindstaff  
General Manager

Submitted by: Chris Berch  
Executive Manager of Engineering/Assistant General Manager

Sylvie Lee  
Manager of Planning and Environmental Resources

Subject: FY 2014/15 IEUA Annual Water-Use Efficiency Programs Report

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### **RECOMMENDATION**

This is an informational item for the Board of Directors to receive and file.

### **BACKGROUND**

Each year, Inland Empire Utilities Agency (IEUA/Agency) prepares a comprehensive water-use efficiency report which captures all of the activities from the past fiscal year. This report tracks the progress that has been made toward the goals and objectives set forth in the Agency's long-term Water-Use Efficiency Business Plan. Member agencies receive service area specific activity and data, which provides the foundation for regulatory compliance with State water-use efficiency statutes and Best Management Practices. In addition, the report serves as a guide for developing the next year's annual budget and evaluates the overall program performances.

Currently, the Agency offers a portfolio of water-use efficiency programs which focus on enhanced efforts to improve landscape management and reduce outdoor water use. Last fiscal year, there were approximately 85,004 water saving technologies/services implemented throughout the service area, which include some of the following:

- ✓ Residential Turf Removal
- ✓ Commercial, Public Sector & HOA Turf Removal
- ✓ Landscape Installation and Retrofit Programs
- ✓ High Efficiency Sprinkler Nozzle Voucher Program

- ✓ Landscape Evaluations and Consultations
- ✓ Weather Based Irrigation Controller Rebates
- ✓ High Efficiency Toilet Rebates
- ✓ High Efficiency Clothes Washer Rebates

The water savings achieved through these regional demand reduction activities is estimated to be 1,196 acre-feet per year, with an average lifetime savings of 10,484 acre-feet. This new water savings is in addition to IEUA's cumulative lifetime water savings of 112,467 acre-feet for all water conserving activities since 1992.

Water-use efficiency and conservation are key fundamentals of the Agency's long-term water resource management strategy. Policies and practices are shaped largely by core strategies and programs designed to meet the requirements of the following initiatives:

- Statewide Mandatory Reduction Target
- 2015 Emergency Drought Regulations
- Governor's Executive Order
- SBX 7-7 - The Water Conservation Act of 2009 (the legislation sets an overall goal of reducing per capita urban water use by 20% by December 31, 2020)
- Assembly Bill 1420 - Mandatory Demand Management Measures Statute
- Assembly Bill 1881 - Enforcement of local water efficient landscape ordinances
- The California Urban Water Conservation Council's Best Management Practices
- State grant and loan eligibility requirements
- Future water use efficiency legislation and regulation

The sustained reduction in water use, as mandated by state legislation, will be met through IEUA's member agency regional alliance and the Agency's continued commitment to implement innovative water-use efficiency programs that create market transformations. The programs support our member agencies compliance with State statutes and the California Urban Water Conservation Council Best Management Practices. Many of these programs have been made possible through funding partnerships with local agencies, including the Metropolitan Water District of Southern California, the Department of Water Resources, the U.S. Bureau of Reclamation, and public/private partnerships.

These Programs are consistent with the Agency's Business Goal of increasing *Water Reliability* by promoting water use efficiency and education to enhance water supplies within the region; and meeting the region's need to develop reliable and diverse local water resources in order to reduce dependence on imported water supplies.

The complete FY 14/15 Annual Water Use Efficiency Programs Report can be located on the Agency website at the following link: <http://www.ieua.org/fy-2014-2015-ieuas-regional-water-use-efficiency-program-report/>.

**PRIOR BOARD ACTION**

None.

**IMPACT ON BUDGET**

None.

# Annual Water Use Efficiency Programs Report FY 2014-15



*Inland Empire Utilities Agency*

A MUNICIPAL WATER DISTRICT

# Annual Programs Summary

- \* 85,004 water saving technologies/services implemented
- \* Approximately 1,196 AF of annual water savings from water use efficiency activities
- \* Projected lifetime water savings: 10,484 AF
- \* Total Conservation Program Funding (FY 2014-2015)
  - o Outside sources: \$3,806,226
  - o Agency funding: \$1,640,341
  - o Imported Tier II (\$725) avoided cost: \$867,100
  - o Water Use Efficiency Programmatic Cost Per AF: \$156



# Regional Priorities

- \* Statewide Mandatory Reduction Targets
- \* 2015 Emergency Drought Regulations
- \* Governor's Executive Order
- \* IEUA's Regional Water Use Efficiency Business Plan
- \* Senate Bill X7-7 - The Water Conservation Act of 2009
- \* Assembly Bill 1420-Demand Management Measures
- \* California Urban Water Conservation Council MOU
- \* Maintain state grant and loan eligibility (IEUA & members)
- \* Compliance with future WUE legislation and regulations

# Regional SBX 7-7 Compliance

Year	Actual GPCD	WUE	RW	Reported GPCD*
<b>UWMP 2010 Baseline</b>				<b>251</b>
2010	220	1	10	209
2011	208	1	12	195
2012	219	2	15	202
2013	228	2	18	208
2014**	234	2	21	211
<b>UWMP 2015 Target</b>				<b>226</b>
2015**	218	3	21	194
<b>UWMP 2020 Target</b>				<b>201</b>
2020**	223	6	35	182

\*Compliance through IEUA/Member Agency Regional Alliance

\*\*Projection: 2015 and 2020 based upon 3-yr average of 2011-2013

Note - Targets were developed using a baseline period of 1998-2008

# FY 2014-2015

## Water Use Efficiency Programs

- \* **Landscape Transformation Program (Turf Removal)**
  - o Completed 140 sites-removed 125,661 square feet of lawn
- \* **Freesprinklernozzles.com Voucher Program**
  - o Residential & Commercial Customers (1,733 vouchers, 47,162 HE nozzles)
- \* **IEUA Residential Landscape Retrofit Program**
  - o 249 site retrofits; 379 weather-based controllers; 5,117 HE nozzles
- \* **Regional Landscape Evaluation and Audit Program (LEAP)**
  - o 154 Residential – 85 Commercial
- \* **Residential, Commercial, Institutional, & Industrial Rebates/Device**
  - o 37,214 residential and commercial rebates

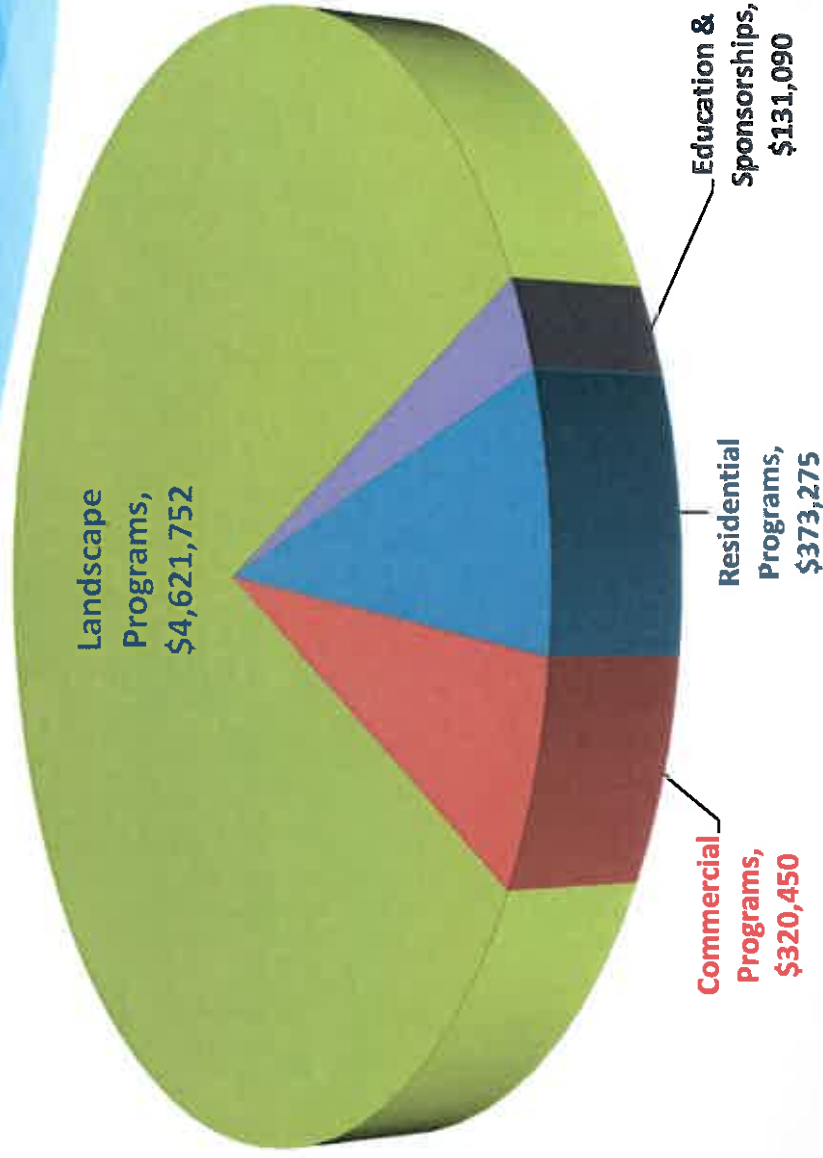


# FY 2014-2015 Education & Outreach

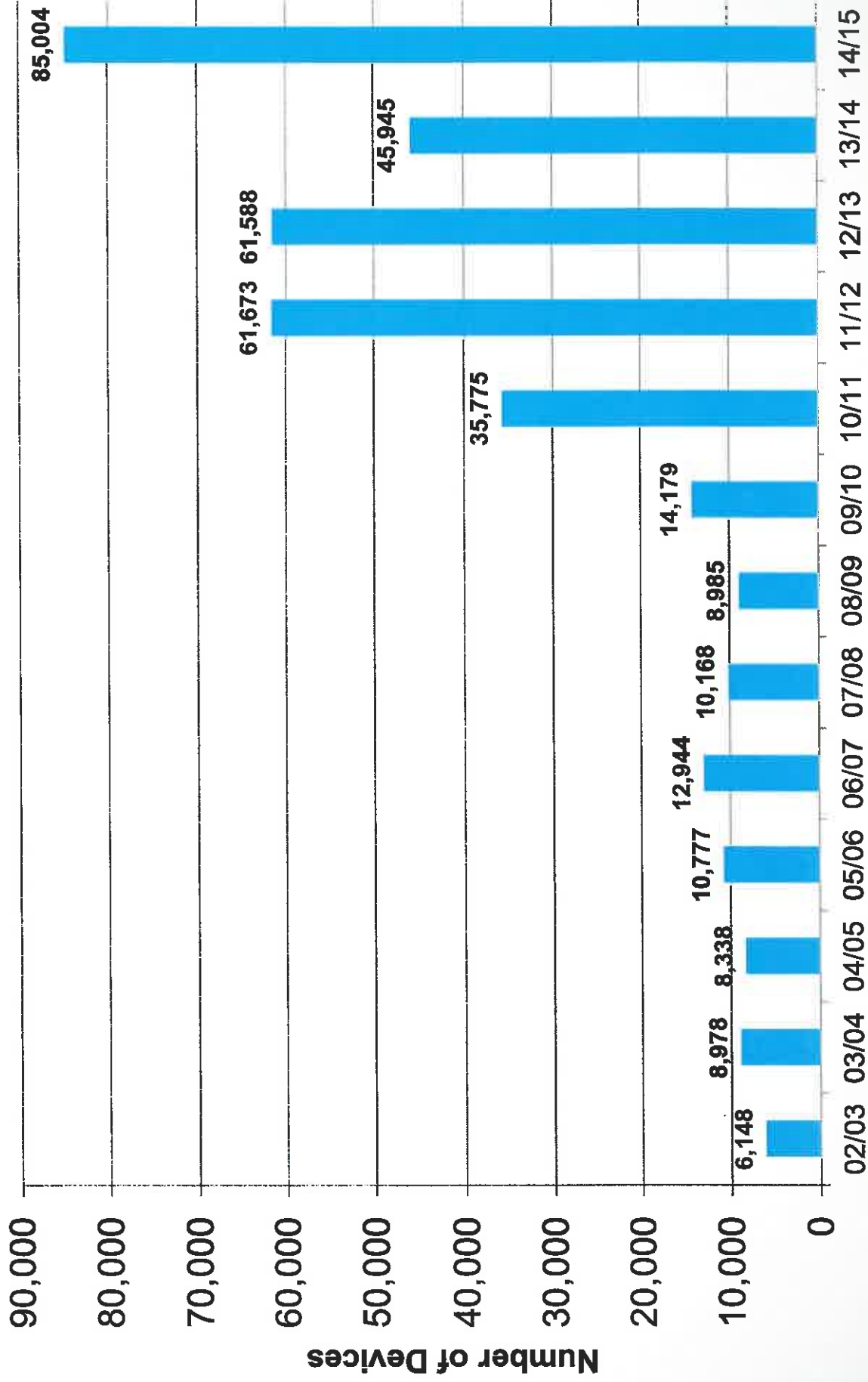
- \* **IEUA Regional Landscape Training Workshops**
  - o 26 residential courses conducted throughout IEUA's service areas
- \* **National Theatre for Children**
  - o 51 Theater Performances – 27,797 K-6 students, teachers & parents reached
- \* **Shows That Teach**
  - o 13 Theater Performances – 4,888 K-6 students, teachers & parents reached
- \* **Garden-In-Every School**
  - o 3 new Gardens Installed – 872 students, teachers, and parents reached (Chino, Chino Hills, Fontana)
- \* **Water Saving Garden Friendly Program**
  - o Home Depot Events - Rancho Cucamonga, Fontana, Chino

# FY 2014-2015 WUE Programs

*For every \$1 invested, IEUA received \$3 in outside funding*

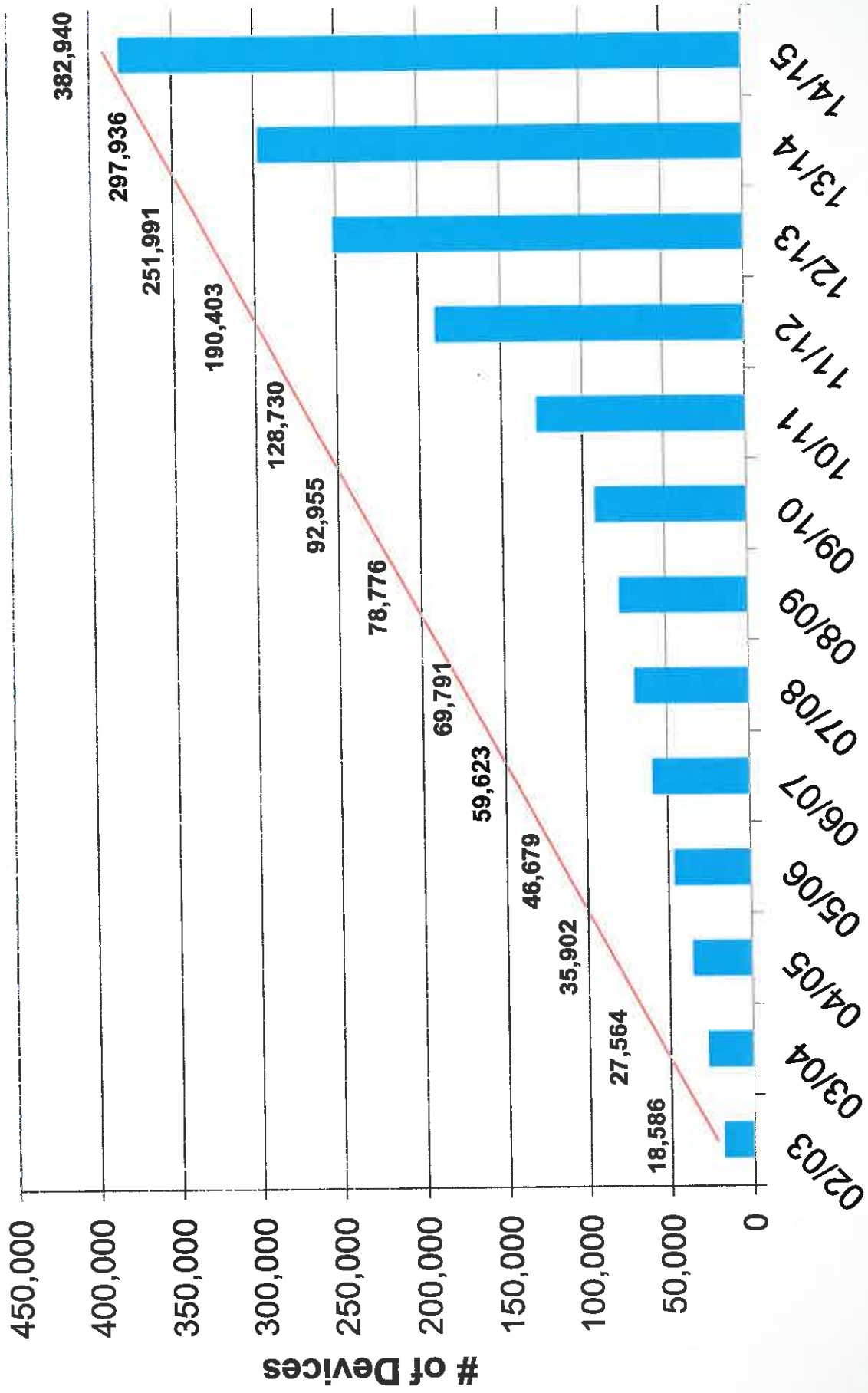


# IEUA Conservation Devices Installed Annually



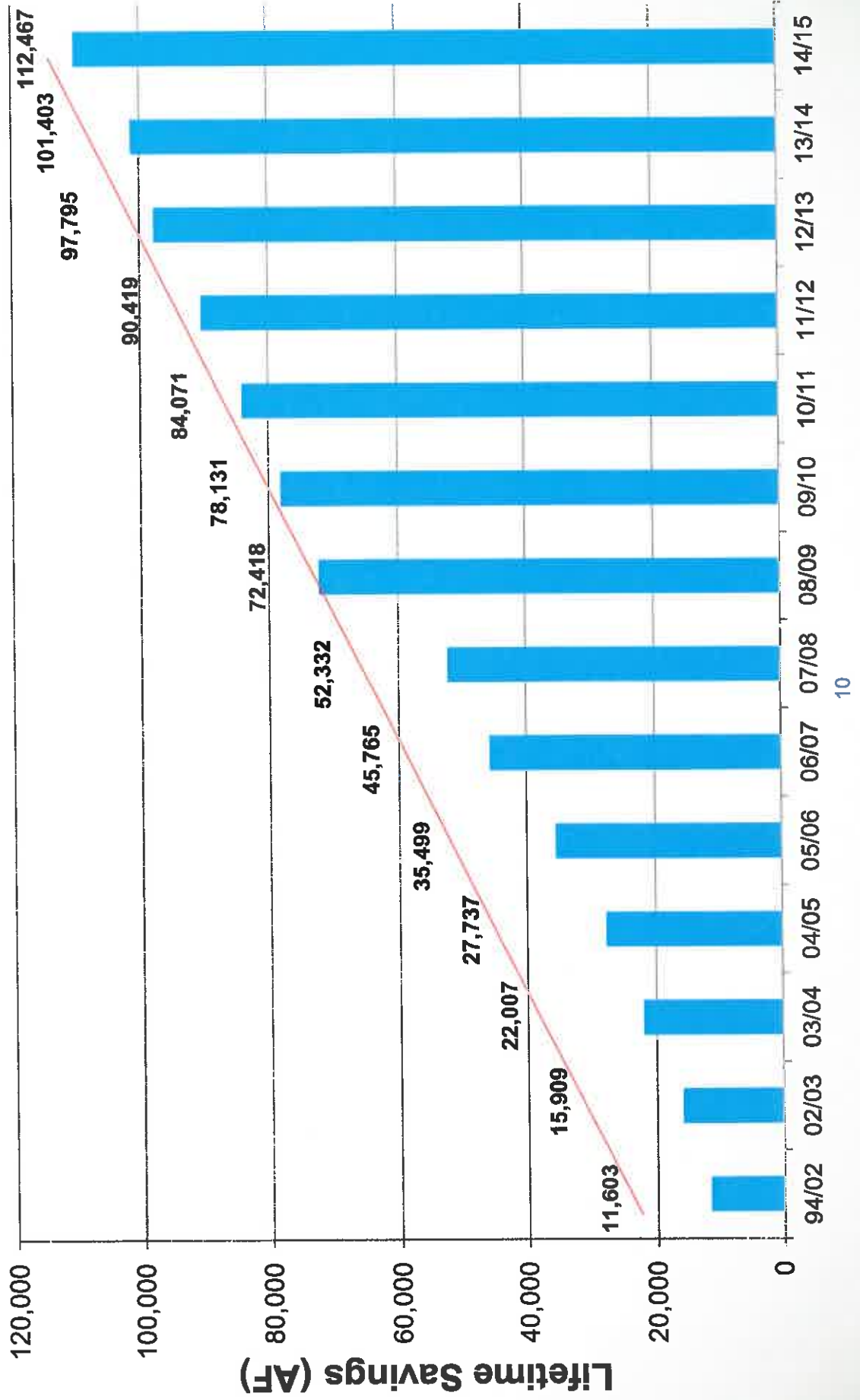
Note: Of the 85,000 devices, 77,972 represent high efficiency nozzles.<sup>8</sup>

# IEUA Cumulative Conservation Devices Installed



Cumulative Devices

# IEUA Lifetime Water Savings From Regional Conservation Programs (AF)





# Water Use Efficiency Update

## FY 2015-16



**Inland Empire Utilities Agency**

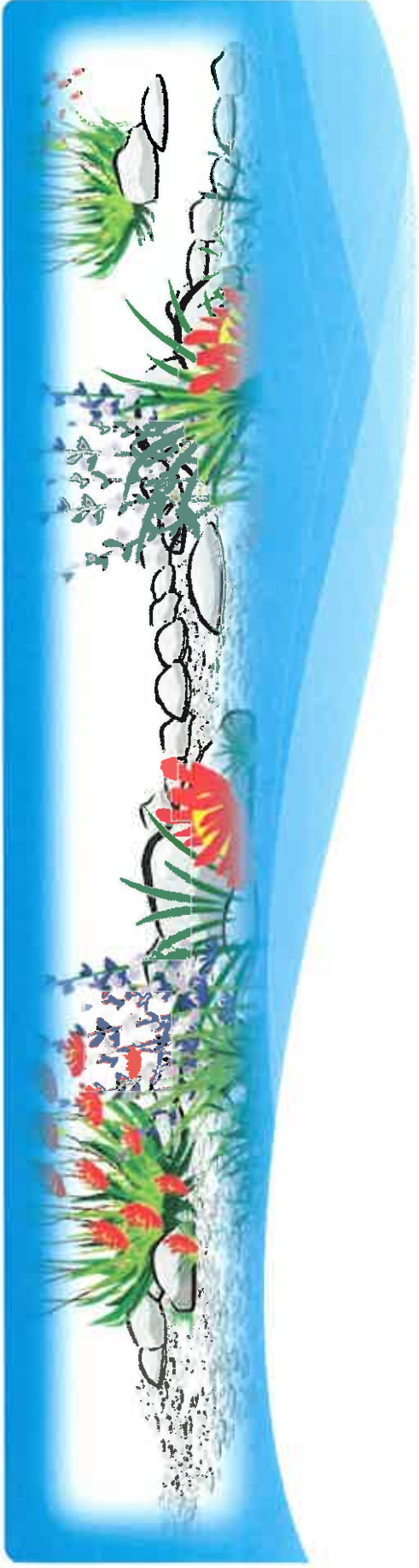
**A MUNICIPAL WATER DISTRICT**

# Water Use Efficiency Programs Update

## FY 15-16

- \* MWD Turf Removal Program Status (Residential/CII)
- \* Total Home Pressure Regulation Program (New)
- \* Additional IEUA Supplemental Funding for Commercial, Institutional, & Industrial Rebates
- \* Additional IEUA Supplemental Funding for Public Agency Landscape Program
- \* Residential Smart Controller Installation Program (New)
  - o Mandatory Class Attendance
  - o Landscape Evaluation
  - o Retrofit





# Discussion



*Consistent with Agency's Business Goal of increasing Water Reliability by promoting water use efficiency and education to enhance water supplies within the region*

**AGENCY  
REPRESENTATIVES'  
REPORTS**

**4A**



# SAWPA

SANTA ANA WATERSHED PROJECT AUTHORITY  
11615 Sterling Avenue, Riverside, California 92503 • (951) 354-4220

**NOTICE AND AGENDA  
SPECIAL COMMISSION MEETING  
TUESDAY, NOVEMBER 3, 2015 – 9:30 A.M.**

**WHICH WILL BE HELD AT**

**MISSION LINEN SUPPLY  
5400 ALTON STREET  
CHINO, CA 91710**

**1. CALL TO ORDER (Tom Evans, Chair)**

**2. ROLL CALL**

**3. PUBLIC COMMENTS**

Members of the public may address the Commission on items within the jurisdiction of the Commission; however, no action may be taken on an item not appearing on the agenda unless the action is otherwise authorized by Government Code §54954.2(b).

**4. INFORMATIONAL PRESENTATION AND TOUR – MISSION LINEN SUPPLY, CHINO, CALIFORNIA**

**A. INFORMATIONAL PRESENTATION**

**Presenters:** Ben Strasshofer | Don Bunch | Viet Pham

**Recommendation:** Receive and file.

**B. FACILITY TOUR**

Guided walking tour of the Mission Linen Supply Facility, 5400 Alton Street, Chino.

**C. QUESTION AND ANSWER SESSION**

A brief question-and-answer session will be conducted following the guided tour.

**5. ADJOURNMENT**

**PLEASE NOTE: This Special Meeting will include a facilities tour which will be inside. There will be stairs and grated walkways. Appropriate covered footwear is highly recommended; no heels or open toed shoes. Hardhats will be required and provided. Americans with Disabilities Act: If you require any special disability related accommodations to participate in this meeting, please contact (951) 354-4220 or kberry@sawpa.org. 48-hour notification prior to the meeting will enable staff to make reasonable arrangements to ensure accessibility for this meeting. Requests should specify the nature of the disability and the type of accommodation requested.**

Materials related to an item on this agenda submitted to the Commission after distribution of the agenda packet are available for public inspection during normal business hours at the SAWPA office, 11615 Sterling Avenue, Riverside, and available at [www.sawpa.org](http://www.sawpa.org), subject to staff's ability to post documents prior to the meeting.

**Declaration of Posting**

I, Kelly Berry, Clerk of the Board of the Santa Ana Watershed Project Authority declare that on Wednesday, October 28, 2015, a copy of this agenda has been uploaded to the SAWPA website at [www.sawpa.org](http://www.sawpa.org) and posted in SAWPA's office at 11615 Sterling Avenue, Riverside, California and 5400 Alton Street, Chino, California.

  
 Kelly Berry, CMC

**2015 - SAWPA Commission Meetings/Events**

First and Third Tuesday of the Month

(NOTE: Unless otherwise noted, all Commission Workshops/Meetings begin at 9:30 a.m., and are held at SAWPA.)

<b>September</b> <del>9/1/15 Commission Workshop [CANCELLED]</del> 9/3/15 Regular Commission Meeting [Special] 9/15/15 Regular Commission Meeting	<b>October</b> 10/6/15 Commission Workshop 10/20/15 Regular Commission Meeting
<b>November</b> 11/3/15 Commission Workshop – Mission Linen Tour 11/17/15 Regular Commission Meeting	<b>December</b> 12/1/15 Commission Workshop 12/1 – 12/4/15 ACWA Fall Conference, Indian Wells 12/15/15 Regular Commission Meeting

**2016 - SAWPA Commission Meetings/Events**

First and Third Tuesday of the Month

(NOTE: Unless otherwise noted, all Commission Workshops/Meetings begin at 9:30 a.m., and are held at SAWPA.)

<b>January</b> 1/5/16 Commission Workshop 1/19/16 Regular Commission Meeting	<b>February</b> 2/2/16 Commission Workshop–OCSD Facilities Tour 2/16/16 Regular Commission Meeting
<b>March</b> 3/1/16 Commission Workshop 3/15/16 Regular Commission Meeting	<b>April</b> 4/5/16 Commission Workshop 4/19/16 Regular Commission Meeting
<b>May</b> 5/3/16 Commission Workshop 5/17/16 Regular Commission Meeting	<b>June</b> 6/7/16 Commission Workshop 6/21/16 Regular Commission Meeting
<b>July</b> 7/5/16 Commission Workshop 7/19/16 Regular Commission Meeting	<b>August</b> 8/2/16 Commission Workshop 8/16/16 Regular Commission Meeting
<b>September</b> 9/6/16 Commission Workshop 9/20/16 Regular Commission Meeting	<b>October</b> 10/4/16 Commission Workshop 10/18/16 Regular Commission Meeting
<b>November</b> 11/1/16 Commission Workshop 11/15/16 Regular Commission Meeting	<b>December</b> 12/6/16 Commission Workshop 12/20/16 Regular Commission Meeting

**AGENCY  
REPRESENTATIVES'  
REPORTS**

**4B**



**REVISION 2 AGENDA**

**Regular Board Meeting**

**November 10, 2015**

**12:00 p.m. -- Board Room**

Tuesday, November 10, 2015 Meeting Schedule		
7:00-8:00 a.m.	Rm. 1-101	Dir. Computer Training
9:00 a.m.	Rm. 2-145	L&C
10:30 a.m.	Rm. 2-456	OP&T
12:00 p.m.	Board Room	Board Meeting

**Telephone Participation:**

**Hawaii Convention Center  
Honolulu, Hawaii  
(805) 732-0005 (cell)**

**MWD Headquarters Building**

**• 700 N. Alameda Street •**

**Los Angeles, CA 90012**

**1. Call to Order**

- (a) Invocation: Jeffery Thomas, Board Member, Municipal Water District of Orange County
- (b) Pledge of Allegiance: Director Sylvia Ballin

**2. Roll Call**

**3. Determination of a Quorum**

**4. Opportunity for members of the public to address the Board on matters within the Board's jurisdiction. (As required by Gov. Code § 54954.3(a))**

**5. OTHER MATTERS**

- A. Approval of the Minutes of the Meeting for October 13, 2015. (A copy has been mailed to each Director)  
Any additions, corrections, or omissions

- B. Report on Directors' events attended at Metropolitan expense for month of October
- Added C. Induction of new Director Janna Zurita, from City of Compton
  - (a) Receive credentials
  - (b) Report on credentials by General Counsel
  - (c) File credentials
  - (d) Administer Oath of Office
  - (e) File Oath
- D. Approve committee assignments
- E. Chairman's Monthly Activity Report
- Added F. Approve 30-day leave of absence for Vice Chair Gloria Gray, commencing December 4, 2015

#### **6. DEPARTMENT HEADS' REPORTS**

- A. General Manager's summary of Metropolitan's activities for the month of October
- B. General Counsel's summary of Legal Department activities for the month of October
- C. General Auditor's summary of activities for the month of October
- D. Ethics Officer's summary of activities for the month of October

#### **7. CONSENT CALENDAR ITEMS — ACTION**

- 7-1 Appropriate \$960,000; and authorize design and repair of expansion joints on pump delivery lines along the Colorado River Aqueduct (Approp. 15483). (E&O)



**Recommendation:**

**Option #1:**

**Adopt the CEQA determination that the proposed action is categorically exempt, and**

- a. Appropriate \$960,000; and**
- b. Authorize design to repair 16 expansion joints on pump delivery lines along the CRA, and authorize construction to repair three of those joints.**

- 7-2** Authorize a long-term ground lease to Verizon Wireless for a telecommunications equipment site in the unincorporated area of Mentone, county of San Bernardino. (RP&AM)

**Recommendation:**

**Option #1:**

**Adopt the CEQA determination that the proposed action is categorically exempt, and authorize the long-term ground lease to Verizon Wireless.**

- 7-3** Authorize amendment of lease to Western Center Community Foundation dba the Western Science Center on Metropolitan-owned property in the city of Hemet, California. (RP&AM)

**Recommendation:**

**Option #1:**

**Adopt the CEQA determination that the proposed action is categorically exempt, and authorize the amendment to Western Center Community Foundation dba the Western Science Center.**

**(END OF CONSENT CALENDAR)**

**8. OTHER BOARD ITEMS — ACTION**

- 8-1** Adopt Twenty-First Supplemental Resolution to the Master Revenue Bond Resolution authorizing the sale of up to \$250 million of Water Revenue Bonds, 2015 Authorization; and approve expenditures to fund the cost of issuance of the Bonds. (F&I)

**Recommendation:**

**Option #1:**

**Adopt the CEQA determination that the proposed action is not defined as a project and is not subject to CEQA, and**

- a. Adopt the Twenty-First Supplemental; Resolution to the Master Revenue Bond Resolution authorizing the issuance of up to \$250 million of Water Revenue Bonds, 2015 Authorization and providing the terms and conditions for the sale and issuance of said Water Revenue Bonds; and**
- b. Approve up to \$1,885,000 for the payment of the cost of issuance of the Water Revenue Bonds to be paid from bond proceeds or Metropolitan funds.**

- 8-2** Appropriate \$36.2 million; award \$29.56 million contract to OHL USA, Inc. to rehabilitate Palos Verdes Reservoir; and authorize agreement with CDM Smith, Inc. in an amount not to exceed \$713,000 (Approps. 15417 and 15441). (E&O)

**Recommendation:**

**Option #1:**

**Review and consider the information contained in Addendum No. 1 and the MND, and find that the proposed modifications will not have a significant impact on the environment, and**

- a. Appropriate \$36.2 million;**
- b. Award \$29.56 million contract to OHL USA, Inc. to rehabilitate Palos Verdes Reservoir; and**
- c. Authorize agreement with CDM Smith, Inc. in an amount not to exceed \$713,000.**

- 8-3** Appropriate \$15 million; and authorize: (1) agreement with County Sanitation District No. 2 of Los Angeles County for development of a potential regional recycled water supply program; and (2) design of a demonstration-scale recycled water treatment plant (Approp. 15493). (WP&S)

**Recommendation:**

**Option #1:**

**Adopt the CEQA determination that the proposed action is categorically exempt, and**

- a. Appropriate \$15 million;**
- b. Authorize agreement with County Sanitation District No. 2 of Los Angeles County, substantially in conformance with the terms included in Attachment 1 to the board letter, and in a form approved by the General Counsel, for implementation of a demonstration project and development of a potential regional recycled water supply program; and**
- c. Authorize design of a demonstration-scale recycled water treatment plant.**

- 8-4 Authorize entering into a new agreement with the California Department of Water Resources for the sale of renewable energy from five Hydroelectric Power Plants. (E&O)**

**Recommendation:**

**Option #1:**

**Adopt the CEQA determination that the proposed action is categorically exempt and is not subject to CEQA, and authorize the General Manager to enter into a new agreement under the terms described in the board letter for the sale of renewable energy from the five Metropolitan Hydroelectric Power Plants.**

- 8-5 Authorize entering into three agency temporary skilled labor agreements. (OP&T)**

**Recommendation:**

**Option #1:**

**Adopt the CEQA determination that the proposed action is not defined as a project and is not subject to CEQA, and authorize the General Manager to enter into the following skilled craft labor agreements:**

- a. A contract for agency temporary skilled craft labor with Grafton Inc., not to exceed \$325,000 per year;**
- b. A contract for agency temporary skilled craft labor with Johnson Services Group not to exceed \$325,000 per year; and**
- c. A contract for agency temporary skilled craft labor with Premier Personnel Resources not to exceed \$325,000 per year.**

- 8-6** Authorize entering into storage and exchange agreements with Antelope Valley-East Kern Water Agency; and approve payment of up to \$16.6 million for funding the agreements. (WP&S)

**Recommendation:**

**Option #1:**

**Adopt the CEQA determination that the proposed action is categorically exempt, and**

- a. Authorize the General Manager to enter into storage and exchange agreements with Antelope Valley-East Kern Water Agency consistent with the terms outlined in the board letter and in a form approved by the General Counsel;**
- b. Approve payment of up to \$16.6 million for funding the storage and exchange agreements with Antelope Valley-East Kern Water Agency; and**
- c. Approve additional payments from the Supply Program Budget should the exchange or storage programs exceed the initial allocated 30,000 AF.**

- 8-7** Report on existing litigation: *Shimmick Construction Company, Inc./Obayashi Corporation, a Joint Venture v. The Metropolitan Water District of Southern California*, LASC Case No. BC559603; and authorize increase of maximum amount payable under contract with (1) Hunt Ortmann Palffy Nieves Darling & Mah, Inc. for legal services by \$500,000 to an amount not to exceed \$600,000, and (2) Pacific Consultants Construction, Inc. for consulting services by \$250,000 to an amount not to exceed \$500,000 (Approp. 15389). (L&C)  
**[Conference with legal counsel—existing litigation; to be heard in closed session pursuant to Gov. Code Section 54956.9(d)(1)]**

- Revision 2            8-8            Authorize General Manager to enter into an agreement to purchase or to acquire an option to purchase property from Delta Wetlands Properties located in Contra Costa, San Joaquin, and Solano Counties. (RP&AM) [Conference with real property negotiators; Property is approximately 20,369.80 acres, identified as Contra Costa County Assessor's Parcel Nos. 026-060-003-6, 026-060-007-7, 026-060-008-5, 026-060-015-0, 026-060-016-8, 026-060-017-6, 026-060-018-4, 026-060-019-2, 026-070-001-8, 026-070-006-7, 026-070-010-9, 026-070-011-7, 026-070-012-5, 026-070-013-3, 026-080-004-0, 026-080-005-7, 026-080-006-5, 026-080-007-3, 026-080-008-1, 026-080-009-9; 023-040-026-9, 023-040-027-7, 023-050-001-9, 023-050-002-7, 023-070-011-4, 023-070-012-2, 023-080-010-4, 023-080-011-2, 023-090-001-1, 023-090-003-7, 023-090-004-5, 023-100-001-9, 023-100-002-7, 023-100-004-3, 023-100-007-6, 023-100-008-4; San Joaquin County Assessor's Parcel Nos. 129-050-01, 129-050-02, 129-050-03, 129-050-04, 129-050-05, 129-050-06, 129-050-07, 129-050-08, 129-050-09, 129-050-11, 129-050-12, 129-050-13, 129-050-14, 129-050-15, 129-050-16, 129-050-17, 129-050-18, 129-050-19, 129-050-24, 129-050-25, 129-050-26, 129-050-27, 129-050-28, 129-050-52, 129-050-54, 129-050-55, 129-050-56, 129-050-60, 69-030-08, 069-030-09, 069-030-10, 069-030-11, 069-030-19, 069-030-20, 069-030-21, 069-030-22, 069-030-23, 069-030-24, 069-030-26, 069-030-27, 069-030-28, 069-030-29, 069-030-30, 069-030-31, 069-030-32, 069-030-33, 069-030-34, 069-030-35, 069-030-36, 069-030-37, 069-030-38, 069-030-39, 069-030-42, 069-030-44, 069-100-01, 069-100-02, 069-100-03, 069-100-04, 069-100-05, 069-100-08, 069-100-09, 069-100-10, 069-100-11; and Solano County Assessor's Parcel No. 0090-060-010; agency negotiators: Jeff Kightlinger, Stephen Arakawa, John Clairday, and Bryan Otake; negotiating parties: Metropolitan and Delta Wetlands Properties; under negotiation: price and terms; to be heard in closed session pursuant to Gov. Code Section 54956.8]**  
**(To be mailed separately)**

**9. BOARD INFORMATION ITEMS**

None

**10. FUTURE AGENDA ITEMS**

**11. ADJOURNMENT**

**NOTE:** At the discretion of the Board, all items appearing on this agenda and all committee agendas, whether or not expressly listed for action, may be deliberated and may be subject to action by the Board.

Each agenda item with a committee designation will be considered and a recommendation may be made by one or more committees prior to consideration and final action by the full Board of Directors. The committee designation appears in parentheses at the end of the description of the agenda item e.g., (E&O, F&I). Committee agendas may be obtained from the Board Executive Secretary.

Writings relating to open session agenda items distributed to Directors less than 72 hours prior to a regular meeting are available for public inspection at Metropolitan's Headquarters Building and on Metropolitan's Web site <http://www.mwdh2o.com>.

Requests for a disability related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting should be made to the Board Executive Secretary in advance of the meeting to ensure availability of the requested service or accommodation.

**AGENCY  
REPRESENTATIVES'  
REPORTS**

**4C**





## **Special Regional Sewerage Program Policy Committee Meeting**

### **AGENDA**

**Wednesday, November 4, 2015**

**Immediately following the**

**Joint IEUA Board and Regional Policy Committee Workshop at 10:00 am**

#### **Location**

Inland Empire Utilities Agency  
6075 Kimball Avenue  
Chino, CA 91710

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***Wednesday, November 4, 2015***

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**Call to Order and Roll Call**

**Pledge of Allegiance**

**Public Comment**

- 1. Technical Committee Report – Ryan Shaw (Oral)**
- 2. Approval of Minutes**
  - A. Minutes of August 5, 2015 Joint IEUA Board and Policy Committee Workshop**
- 3. Action Items**
  - A. Recycled Water Policy Principles (Written)**
- 4. Informational Items**

None.
- 5.**
  - A. Building Activity Report (YTD)**
  - B. Recycled Water Operations Summary**
  - C. Annual Water Use Report (Written/PowerPoint)**
  - D. Ten-Year Growth Forecast (PowerPoint)**
  - E. Conservation Program Update (PowerPoint)**
  - F. Energy Management Plan**
  - G. 4<sup>th</sup> Quarter Budget Variance**
- 6. Other Business**

- A. IEUA General Manager's Update
- B. Committee Member Requested Agenda Items for Next Meeting
- C. Committee Member Comments
- D. Next Meeting – December 3, 2015

**7 Adjournment**

**DECLARATION OF POSTING**

---

I, Melinda J. Temblador, Administrative Coordinator of the Inland Empire Utilities Agency, A Municipal Water District, hereby certify that a copy of this agenda has been posted by 5:30 p.m. in the foyer at the Agency's main office, 6075 Kimball Avenue, Building A, Chino, CA on Monday, November 2, 2015.



Melinda J. Temblador

**AGENCY  
REPRESENTATIVES'  
REPORTS**

**4D**

**CHINO BASIN WATERMASTER  
WATERMASTER BOARD MEETING**

11:00 a.m. – October 22, 2015

**WITH**

*Mr. Steve Elie – Chair*

*Mr. Paul Hofer – Vice-Chair*

**At The Offices Of**

**Chino Basin Watermaster**

9641 San Bernardino Road

Rancho Cucamonga, CA 91730

**AGENDA**

**CALL TO ORDER**

**PLEDGE OF ALLEGIANCE**

**PUBLIC COMMENTS**

**AGENDA - ADDITIONS/REORDER**

**I. CONSENT CALENDAR**

**Note: All matters listed under the Consent Calendar are considered to be routine and non-controversial and will be acted upon by one motion in the form listed below. There will be no separate discussion on these items prior to voting unless any members, staff, or the public requests specific items be discussed and/or removed from the Consent Calendar for separate action.**

**A. MINUTES**

1. Minutes of the Watermaster Board Meeting held September 24, 2015

**B. FINANCIAL REPORTS**

1. Cash Disbursements for the month of August 2015
2. Watermaster VISA Check Detail for the month of August 2015
3. Combining Schedule for the Period July 1, 2015 through August 31, 2015
4. Treasurer's Report of Financial Affairs for the Period August 1, 2015 through August 31, 2015
5. Budget vs. Actual Report for the Period July 1, 2015 through August 31, 2015

**C. ICMA-RC 401(a) PLAN DOCUMENT – EXECUTION OF NEW ADOPTION AGREEMENT**

Approve the adoption of the restated plan document to ensure the Watermaster 401(a) Plan is updated in accordance with current IRS regulations (Resolution 2015-07).

**II. BUSINESS ITEMS**

**A. WILDERMUTH ENVIRONMENTAL, INC. CONTRACT**

Approve proposed contract with WEI, and authorize the General Manager to sign on behalf of Watermaster subject to any necessary non-substantive changes.

**III. REPORTS/UPDATES**

**A. LEGAL COUNSEL REPORT**

1. 2015 Safe Yield Reset Agreement
2. Motion for Approval of Temporary Substitute Rate, Receipt and Filing of Semi-Annual Report
3. DWR Basin Boundary Revision Regulations
4. Alvarez CalPERS Hearing

**B. ENGINEER REPORT**

1. Ground-Level Monitoring Report

**C. CFO REPORT**

None

**D. GM REPORT**

1. Watermaster Reappointment
2. Interim 2015/16 Assessment
3. Stormwater Recharge Update
4. Business Plan Update
5. Storage
6. Request for Information Process
7. Holiday Meeting Schedule
8. Other

**IV. INFORMATION**

1. Cash Disbursements for September 2015
2. Ground-Level Monitoring Report
3. Update on South Archibald and Chino Airport Plumes
4. RMPU Status Report

**V. BOARD MEMBER COMMENTS**

**VI. OTHER BUSINESS**

**VII. CONFIDENTIAL SESSION - POSSIBLE ACTION**

Pursuant to Article 2.6 of the Watermaster Rules & Regulations, a Confidential Session may be held during the Watermaster Board meeting for the purpose of discussion and possible action.

**VIII. FUTURE MEETINGS AT WATERMASTER**

10/22/15	Thu	11:00 a.m.	Watermaster Board
11/12/15	Thu	9:00 a.m.	Appropriative Pool
11/12/15	Thu	11:00 a.m.	Non-Agricultural Pool
11/12/15	Thu	1:30 p.m.	Agricultural Pool
11/17/15	Tue	9:00 a.m.	Groundwater Recharge Coordinating Committee (GRCC)
11/19/15	Thu	9:00 a.m.	Advisory Committee
11/19/15	Thu	9:30 a.m.	Recharge Investigations and Projects Committee (RIPCom)
11/19/15	Thu	11:00 a.m.	Watermaster Board (Rescheduled from 11/26/15)

**ADJOURNMENT**

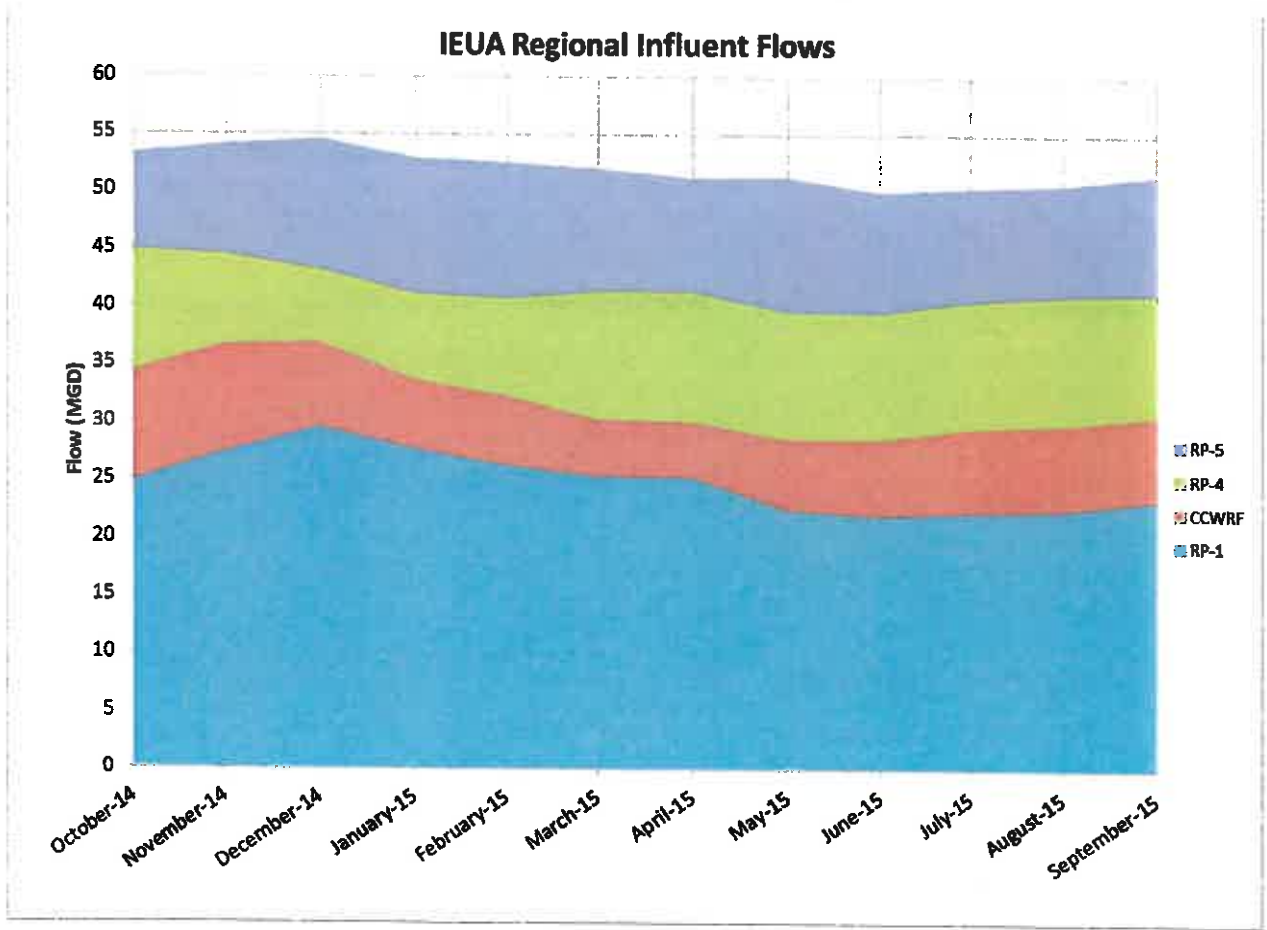
**GENERAL  
MANAGER'S  
REPORT**



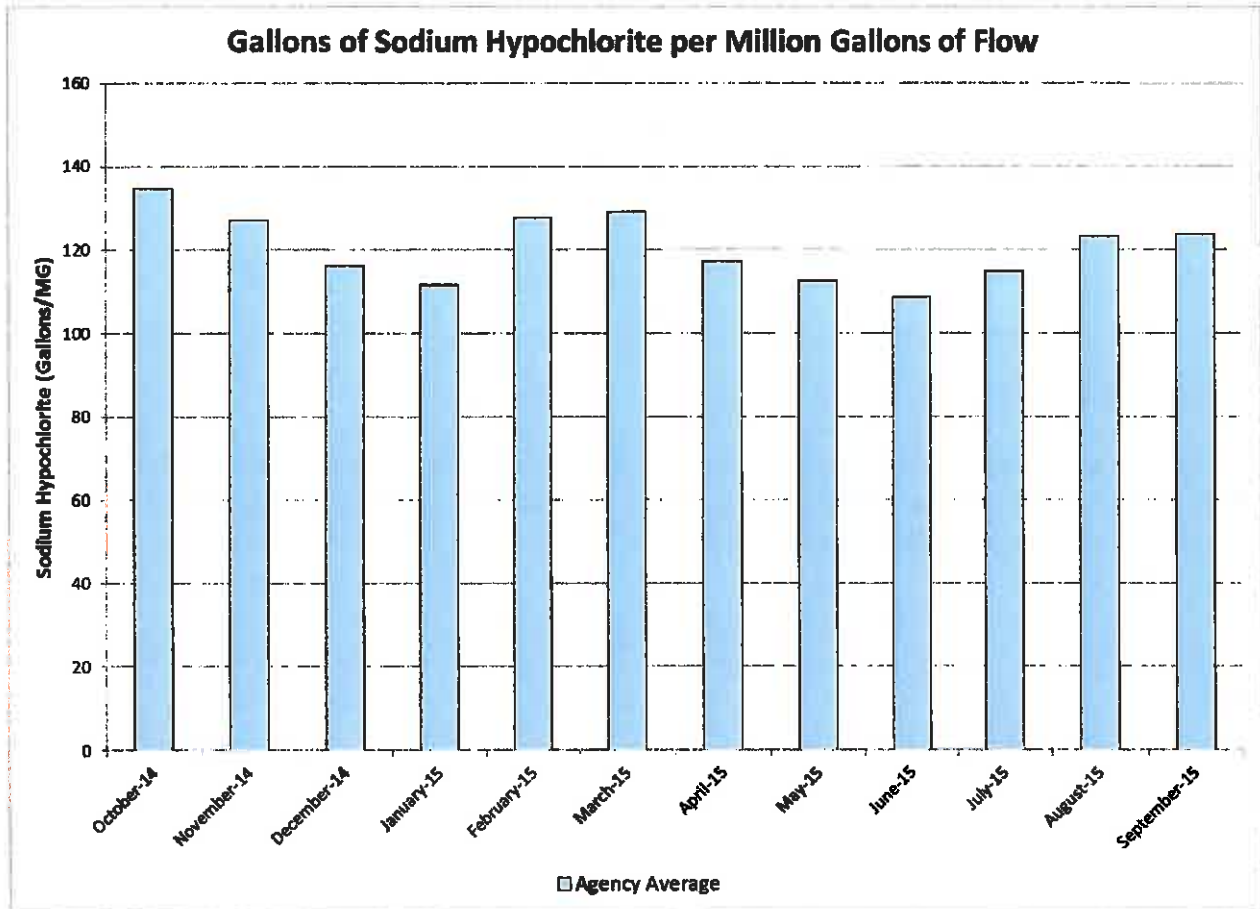
Date: November 18, 2015  
To: The Honorable Board of Directors  
From: P. Joseph Grindstaff  
General Manager *[Signature]*  
Subject: General Manager's Report Regarding Agency Activities

**OPERATIONS UPDATE**

Regional Plant influent flows during the month of September is consistent with the flow received during the previous month. Agency wide average daily influent flow for the month of September was approximately 50 million gallons per day.

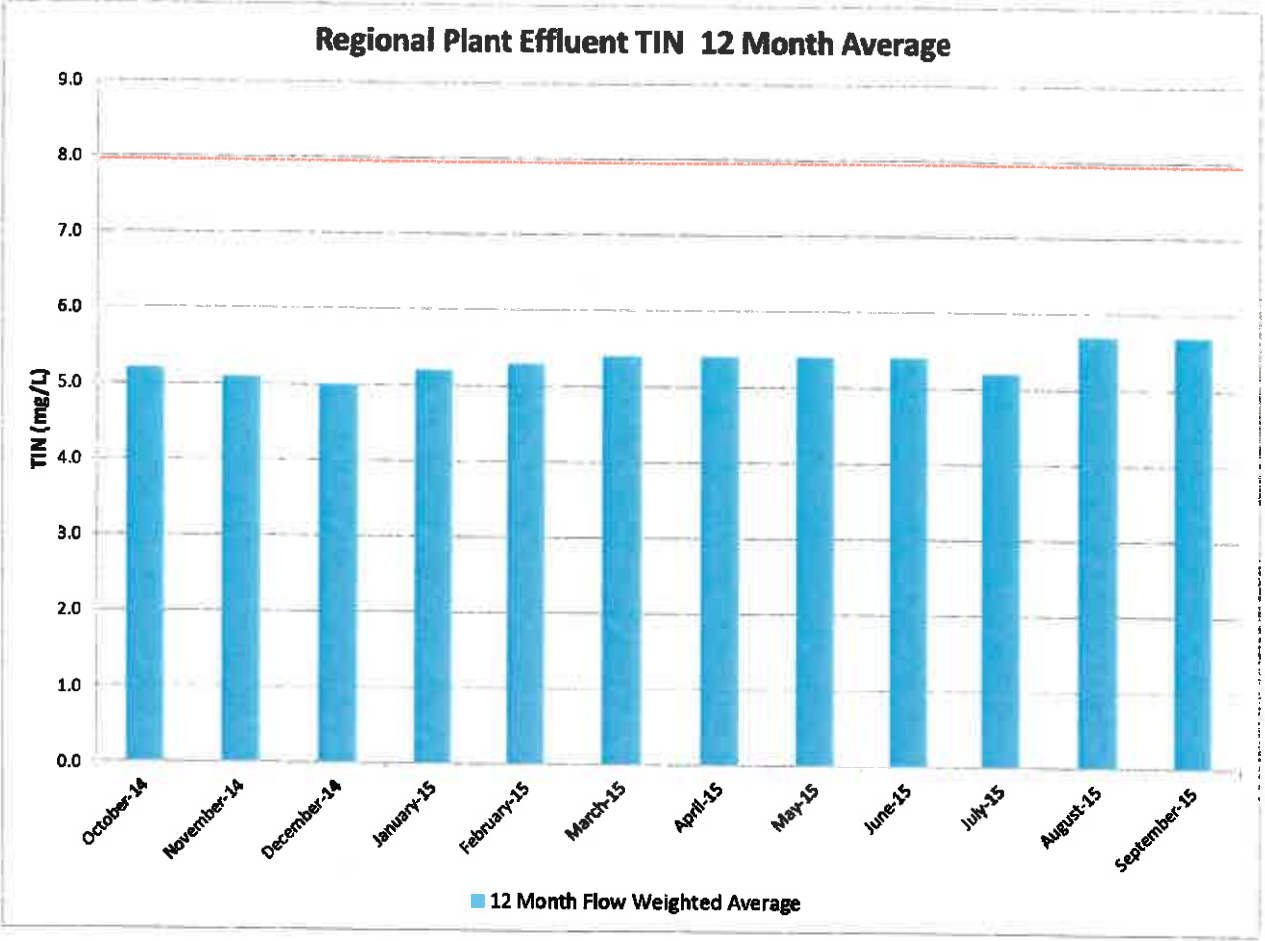


September 2015, Regional Plant sodium hypochlorite consumption averaged 110 gallons per million gallons of treated flows.

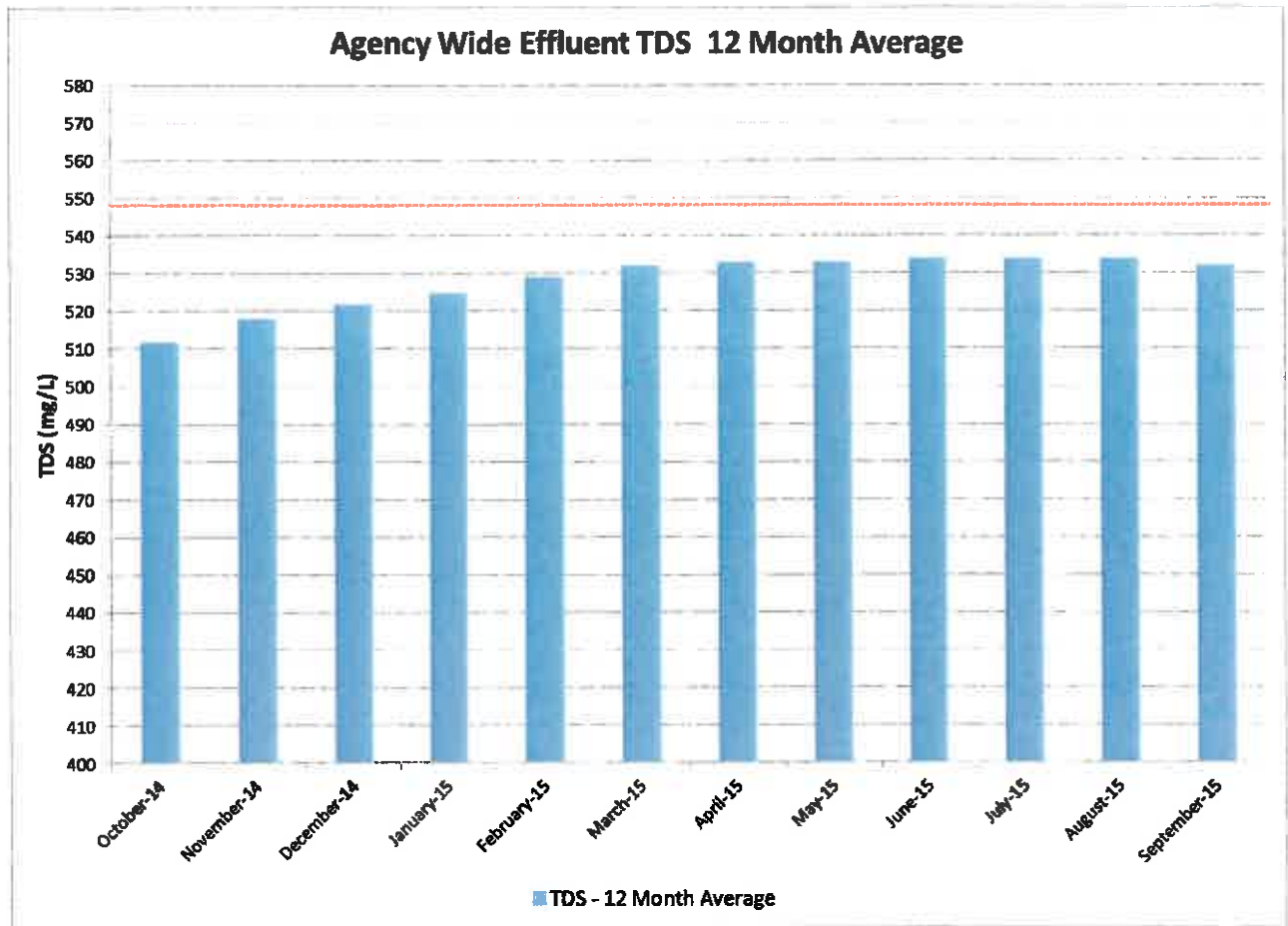




September 2015, Agency 12-month average Total Inorganic Nitrogen (TIN) was 5.7 mg/L.



September 2015, Agency effluent 12-month average Total Dissolved Solids (TDS) was 532 mg/L.



**IERCF UPDATE**

**Operational Comments** – Facility throughput for October averaged approximately 98% of permitted capacity at an average of 417 tons per day of biosolids and 162 tons per day of amendments (based on a 30-day month). The facility is operating well with no violations or lost time incidents.

**Facility Throughput**

POTW	Wet Tons Month	Wet Tons Year to Date
LACSD	7,068.14	68,367.60
IEUA	4,817.81	48,064.28
OCSD	626.59	2,907.92
<b>Total</b>	<b>12,512.54</b>	<b>119,339.80</b>

**Compost Sales** – Fiscal YTD sales continued to lag behind last year's sales for the same period due to timing of the agricultural markets. Farmers are seeking to take material aggressively in anticipation of an El Niño which may shorten their planting window. Compost inventory in the storage facility is at 24,000 cubic yards and is anticipated to be reduced to approximately 5,000 cubic yards by the end of the year in preparation for a potentially wet winter.

**Monthly Sales Summary October 2015**

Month	Product	Cyds	Av. \$/Cyd	Total \$
October	Premium	25,172.03	\$1.29	\$32,358.07
	Base	2,222.27	\$0.47	\$1,043.67
<b>Total</b>		<b>27,394.30</b>	<b>\$1.22</b>	<b>\$33,401.74</b>

**YTD Sales Summary through October 2015**

Month	Total Cyds 2015/2016	Total Cyds 2014/2015	Total \$ 2015/2016	Total \$ 2014/2015
July	21,389.25	23,882.49	\$34,657.16	\$39,474.57
August	16,919.04	25,689.52	\$30,461.07	\$27,575.69
September	16,750.02	33,184.26	\$24,655.71	\$37,732.49
October	27,394.30	31,487.37	\$33,401.74	\$31,552.56
<b>Total</b>	<b>82,452.61</b>	<b>114,243.64</b>	<b>\$123,175.68</b>	<b>\$136,335.31</b>
<b>Average</b>	<b>20,613.15</b>	<b>28,560.91</b>	<b>\$30,793.92</b>	<b>\$34,083.83</b>

General Manager's Report Regarding Agency Activities

October 14, 2015

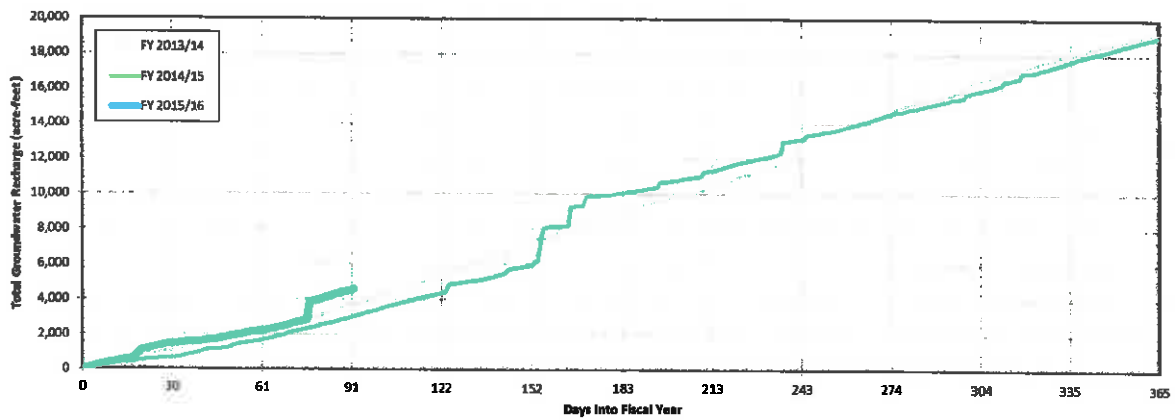
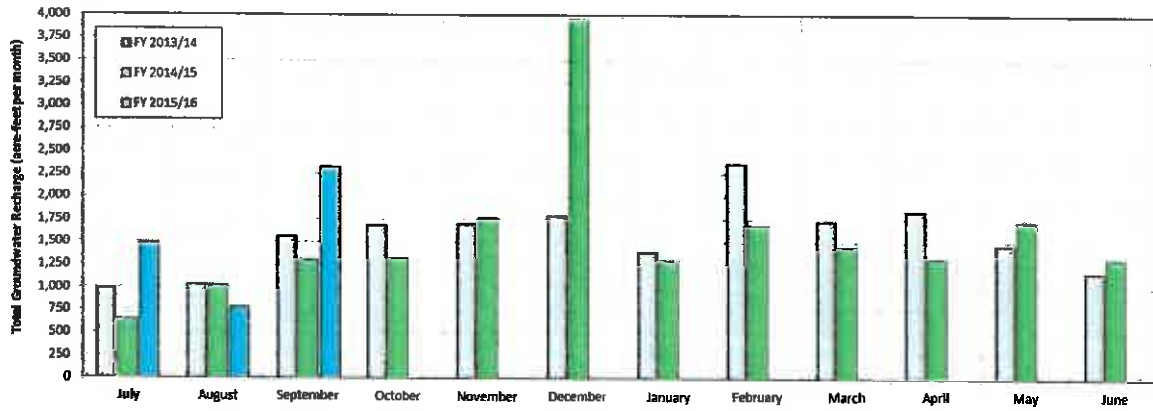
Page 6 of 17

**GROUNDWATER RECHARGE**

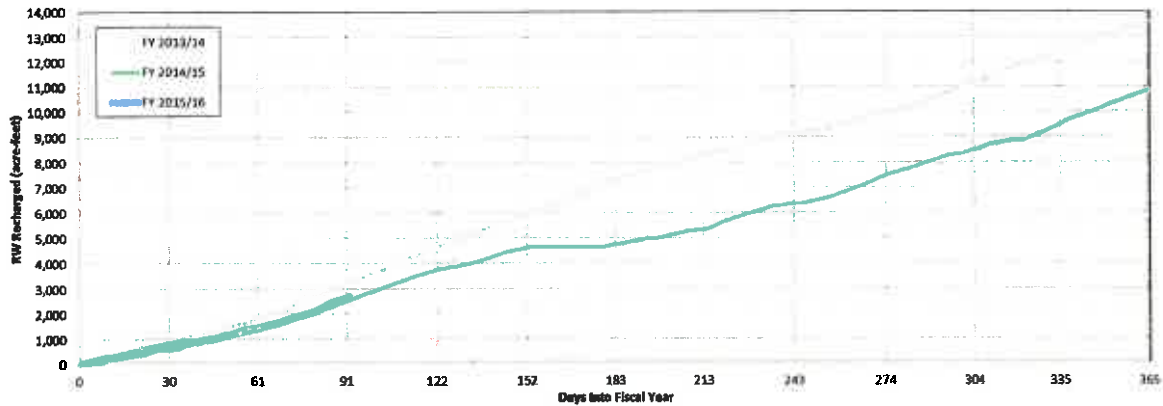
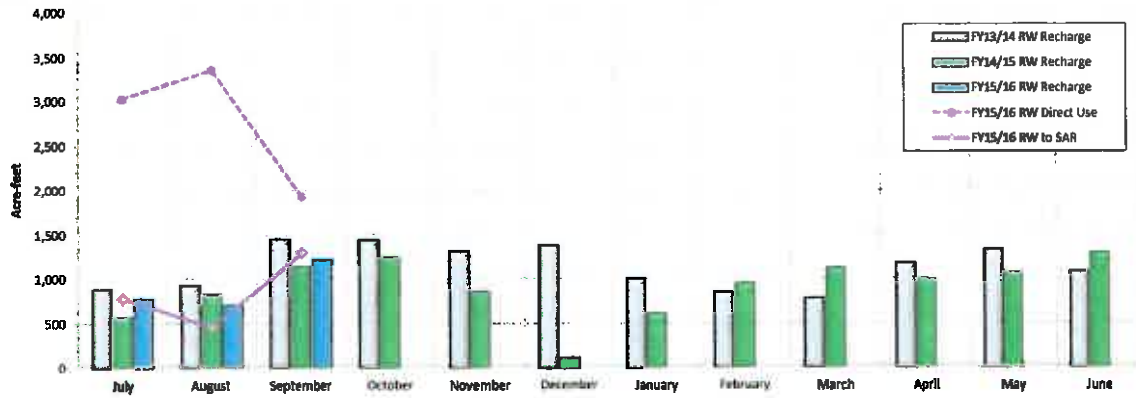
During September 2015, recycled water recharge totaled 1,211 acre-feet and there was no imported water delivered. The capture of dry weather creek flows totaled 66 acre-feet. There were two rain events during this period that generated a total of 1,040 acre-feet of capture storm water.

SUMMARY OF CHINO BASIN GROUNDWATER RECHARGE OPERATIONS					
September 2015					
Drainage System Basin	Recharge Volume (AF)*			Management Zone Subtotals	
	SW/LR	MW	RW		
<b>San Antonio Channel Drainage System</b>					
College Heights	-	-	N	MZ-1 237 AF**	
Upland	29	-	N		
Montclair 1, 2, 3 & 4	42	-	N		
Brooks	28	-	-		
<b>West Cucamonga Channel Drainage System</b>					
8th Street	19	-	-	MZ-2 1,092 AF**	
7th Street	57	-	63		
Ely 1, 2, & 3	215	-	31		
<b>Minor Drainage</b>					
Grove	82	N	N		
<b>Cucamonga and Deer Creek Channel Drainage Systems</b>					
Turner 1 & 2	120	-	145		
Turner 3 & 4	74	-	51		
<b>Day Creek Channel Drainage System</b>					
Lower Day	19	-	X		
<b>Etiwanda Channel Drainage System</b>					
Etiwanda Debris	13	-	X		
Victoria	37	-	136		
<b>San Sevaine Channel Drainage System</b>					
San Sevaine 1, 2, 3, & 4	28	-	-		
San Sevaine 5	25	-	-		
<b>West Fontana Channel System</b>					
Hickory	9	-	107		
Banana	40	-	376		
<b>Decluz Channel Drainage System</b>					
RP3 Cells 1,3, & 4	75	-	302	MZ-3 988 AF**	
RP3 Cell 2	48	-	-		
Decluz	147	-	-		
<b>Non-Replenishment Recharge**</b>					
Brooks (MVWD) MZ-1	-				
Montclair (MVWD) MZ-1	(1)				
Turner (CVWD) MZ-2	-				
Month Total = 2,317 AF	1,106	-	1,211	September 2015	
Fiscal Year to Date Total				Fiscal Year	
Since July 1, 2015 = 4,588 AF	1,895	-	2,693	to Date	
Calendar Year to Date Total				Calendar Year	
Since Jan. 1, 2015 = 13,408 AF	4,656	0.0	8,752	to Date	
SW : Storm Water, LR : Local Runoff (and GE, MVWD), MW : MWD Imported Water, RW : Recycled Water - : No stormwater/local runoff, or basin not in use due to maintenance or testing. X : Turnouts not available - to be installed during future projects. N : No turnout planned for installation. * : Data are preliminary based on the data available at the time of this report preparation. ** : Management Zone Subtotals have deducted from them any Non-Replenishment Recharge, which is recharge originating from pumped groundwater and is not new water.					

**Total Groundwater Recharge**

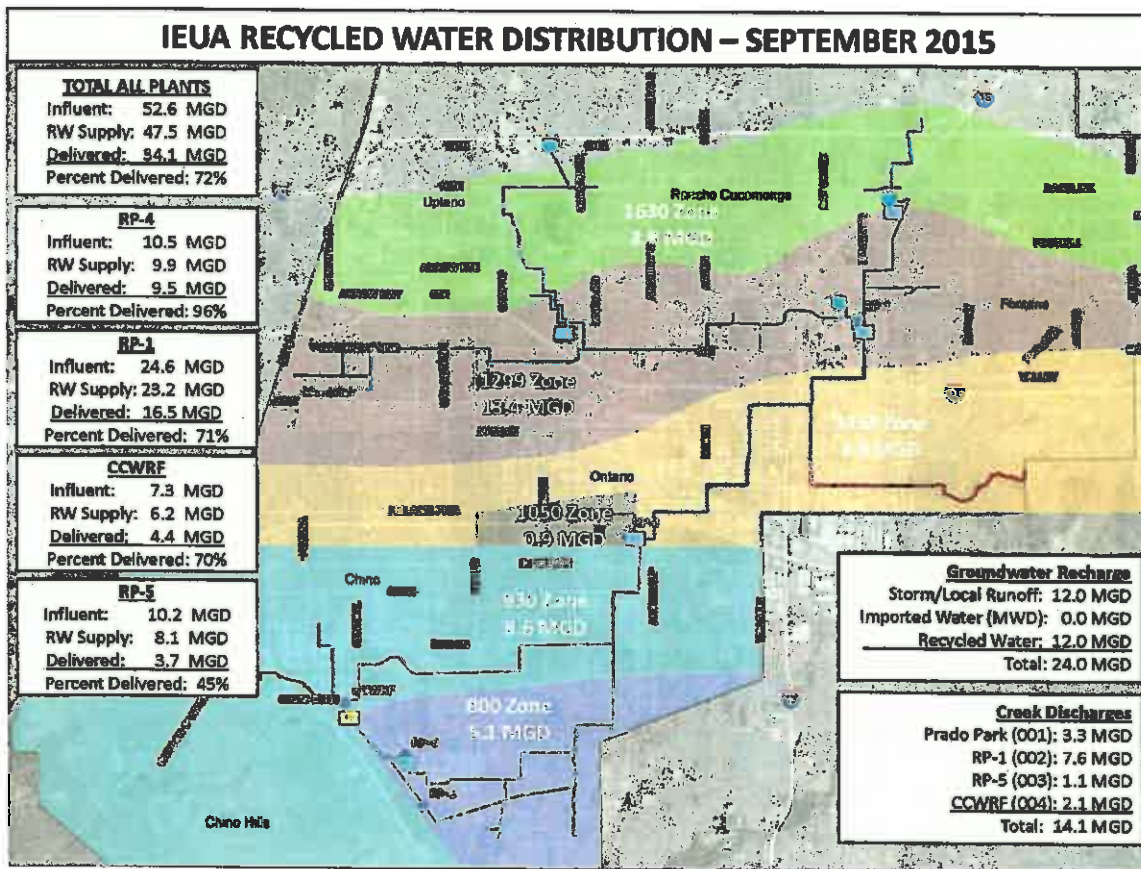


### Recycled Water Delivered to Groundwater Recharge



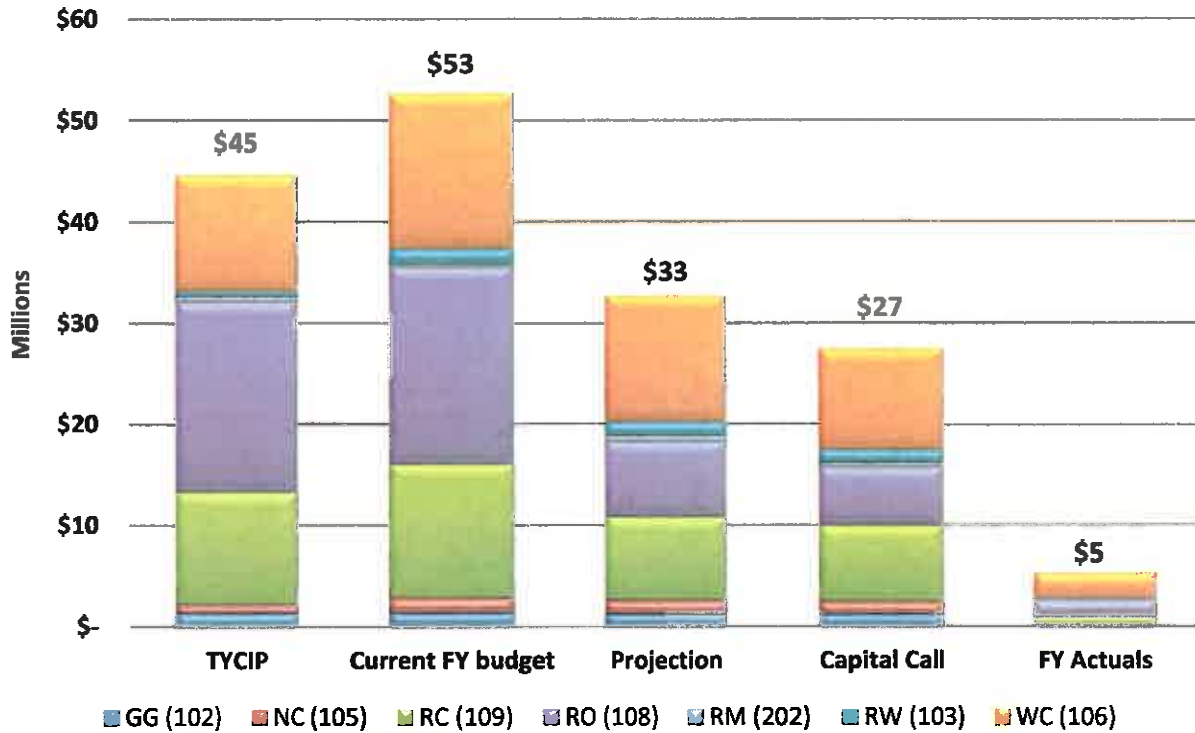
**RW DISTRIBUTION**

During September 2015, 72% (34.1 MGD) of IEUA recycled water supply (47.5 MGD) was delivered into the distribution system for both direct use customers (21.4 MGD) and groundwater recharge (12.0 MGD). Plant discharge to creeks feeding the Santa Ana River averaged 14.1 MGD.



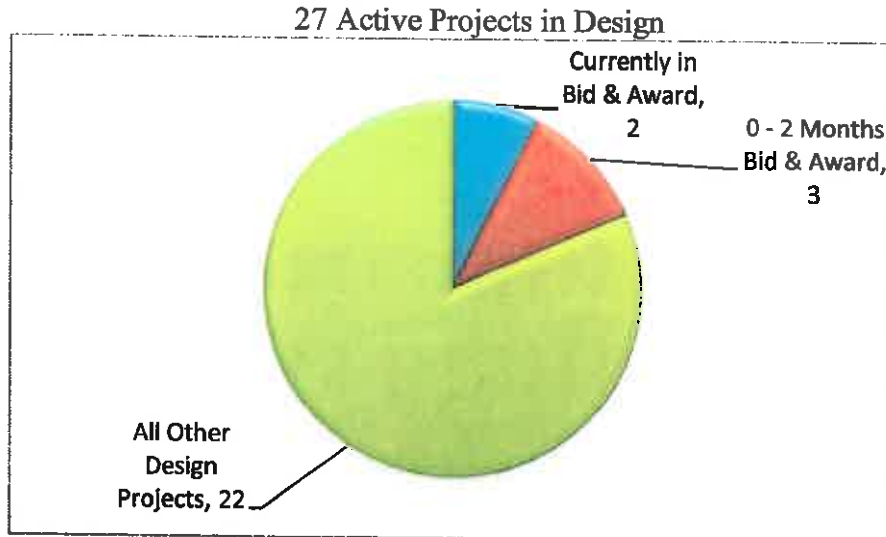
**ENGINEERING AND CONSTRUCTION MANAGEMENT**

Engineering and Construction Management's FY15/16 budget is \$52,678,415. As of October 1st, staff has projected to spend \$32,687,153 during FY15/16 of which \$5,241,916 has been spent. The following chart summarizes the Engineering and Construction Management FY Budget status update.





Active Projects in Design



2 Projects Currently in Bid & Award

- EN13056.01 RP-4 MCC - Power Center Five Roof Access
- EN13018.00 Montclair Diversion Structure Improvements

3 Projects 0-2 Months Bid & Award

- EN15030.02 San Bernardino Lift Station Fiber Optic Vault Upgrades
- EN15055.00 1630 W. Recycled Water Pump Station - Surge Tank Installation
- EN14047.00 GWR and RW SCADA Control Upgrades

**Active Projects in Construction**

Project ID	Project Title	Description	Total Project Budget (\$)	Total Cost to Date (\$)	FY 15/16 Budget (\$)	FY Cost this FY (\$)	Total CO's (\$)	Total CO's (%)	% Project Complete	Original Est. Date	Estimated Est. Date
1	EN108023.06 RP1 Primary Clarifier 2015 Rehab Proj	Continuation of the required rehab work within the Primary Clarifiers	-	526,967	-	505,292	161,768	25.67%	82.42%	-	Jan-07-16
2	EN12014.00 East Avenue 1630 E RWP Relocation	Relocation of 200 LF of 36 inch RW PL on East Avenue in Rancho	890,108	178,898	633,261	6,953	-	0.00%	68.52%	Aug-30-15	Jan-14-16
3	EN12019.00 GWR and RW Comm. Sys. Upgrades	Design of the SCADA system to provide control & monitoring	1,594,400	894,459	970,563	574,133	-	-	96.54%	Jul-02-15	Dec-31-15
4	EN12020.00 Chino Creek Invert Repair	Evaluate the condition of the creek invert over the siphon trench & make repairs	477,503	140,411	477,503	109,971	1,832	11.74%	76.85%	-	Jan-12-16
5	EN13016.00 SCADA Enterprise System	Design/construct SCADA system that enables remote control of facilities	10,309,546	2,513,817	-	1,016,790	7,897	0.32%	88.39%	Feb-15-16	Mar-01-16
6	EN13016.01 CCWRF Control and Server Rooms Modification	Convert control & workrooms into new server & control rooms for SCADA	-	241,260	-	156,709	-	0.00%	98.32%	Jul-15-15	Jul-29-15
7	EN13018.00 Montclair Diversion Structure Improvements	Replace liquid mist odor control system @ CCWRF and replace bar screens	3,030,095	362,302	1,203,874	48,069	-	0.00%	80.04%	Jul-16-16	Jul-18-16
8	EN13040.00 Prado Dechlor Communication System	Design, supply & install a monopole to communicate with the RP-5	356,265	230,130	223,987	97,851	-	-	89.58%	Jan-29-16	Jan-20-16
9	EN13042.00 Philly Pump Station Communication System	Design, supply & install monopole @ Philly PS and integrate w/existing network.	387,918	187,303	303,566	102,951	-	-	89.58%	Jan-29-16	Jan-20-16
10	EN13043.00 Montclair Lift Station Communication System	Design, supply & install monopole at Montclair LS	571,281	354,473	447,614	230,806	-	-	89.59%	Jan-29-16	Jan-20-16
11	EN13045.00 Wineville RW Extension Segment B	Install 2.8 miles of 30" RWP & to the associated appurtenances	11,880,300	9,938,527	2,506,256	846,900	536,028	0.34%	90.07%	Jun-26-15	Dec-21-15
12	EN13046.00 RP1 Flare System Improvements	Design, procure, construction & startup of the two new flare systems at RP1	3,600,000	428,595	487,622	286,605	-	-	89.88%	Sep-30-15	Dec-08-15
13	EN14038.00 CB20 Noise Mitigation Measures	Design and Build the sound mitigating enclosure	160,000	105,001	109,328	54,586	-	-	106.37%	Jun-30-14	Nov-17-15
14	EN14052.00 RP1 Primary Clarifier W. Effluent Pipeline Repl.	Replace effluent pipeline w/vitrified clay pipe and extend life	1,112,000	988,497	65,020	42,154	-	2.56%	99.59%	Aug-31-14	Nov-20-15
15	EN15026.11 Emergency HOA and HOB Slab Repair	HOA and HOB Slab Repair	-	17,795	-	13,202	-	0.00%	81.95%	-	Sep-04-15
16	EN15032.00 Agency-Wide HVAC Improvements - Pkg No. 3	Evaluate elect & control bldgs HVAC systems & provide solutions/upgrades @RP-1	1,200,000	155,236	1,009,250	60,960	-	-	57.08%	Jun-05-16	Jun-05-16
17	EN15045.00 Collection System Manhole Upgrades FY 15/16	Repair/replace a total (44) sewer collection system manhole frames and covers	620,000	133,147	512,340	27,681	-	0.00%	68.03%	Apr-30-16	Apr-05-16
18	EN15046.00 NRW Manhole Upgrades FY 15/16	Repair twenty three (23) NRW collection system manholes.	436,086	91,631	350,000	13,156	-	0.00%	63.22%	Apr-30-16	Apr-05-16
19	EN16067.00 RP-1 DAFs Plug Valve Replacement	Demolition and replacement of existing eccentric plug valves in DAF Valve Vaults	120,000	4,621	120,000	4,621	-	0.00%	31.65%	-	Feb-06-16
			<b>36,745,502</b>	<b>17,493,070</b>	<b>9,420,183</b>	<b>4,199,591</b>	<b>707,524</b>				

• Total construction contract payments for work completed in October: \$1,464,914

**Completed Construction Projects - Notice of Completion Filed in October 2015**

Project ID	Project Title	Description	Total Project Budget (\$)	Total Cost to Date (\$)	FY 15/16 Budget (\$)	FY Cost this FY (\$)	Total CO's (\$)	Total CO's (%)	% Project Complete	Original Est. Date	Notice of Completion Filed
1	RA11004.00 IERCF Process Improvements	Upgrading the conveyor belts at IERCF	5,625,000	5,567,698	21,475	160,075	372,771	11.75%	100.00%	11/26/2014	10/1/2015
			<b>5,625,000</b>	<b>5,567,698</b>	<b>21,475</b>	<b>160,075</b>	<b>372,771</b>				

**Emergency Projects Awarded in October 2015**

Project ID	Contractor	Task Order Description	PO #	Amount	Date
1	EN16017.08 W.A. Basic Construction	RP4 20" Valve Replacement	TO-021	NTE 58,000	10/8/2015
2	EN16019.05 W.A. Basic Construction	RP-1 Centrifuge Bldg. Centrate Well Coating	TO-019	NTE 30,000	10/6/2015
3	EN16019.07 W.A. Basic Construction	RP-1 Emergency Settlement Repair	TO-008	17,034	10/14/2015
4	EN16019.08 Ferreira Construction	RP-1 Miscellaneous Repairs	TO-003	24,314	10/21/2015

**Office Engineering Project**

Project ID	Project Title	Status	% Complete	Actual Cost
1	CW16003.01 Ontario Reg Coms to ETS Group 1	Final manhole adjustments are pending final paving	51.20%	26
2	CW16003.02 Chino Reg Conn C-30	The City of Chino has not determined the bid and award schedule	26.68%	28
3	CW16102.01 CVWD RW Conn CVRW-43	The revised final design was submitted for review. Mylars were signed 10/29/15	33.20%	28
4	CW16102.02 Ontario RW Coms ORW-67 & ORW-68	Waiting for certificate of insurance prior to issuing a construction permit.	15.80%	0
5	CW16102.03 CVWD RW Conn CVRW-42	Waiting for certificate of insurance prior to issuing a construction permit.	29.82%	0
6	CW16102.04 CVWD RW Conn CVRW-44	Waiting for final design for review.	29.82%	0
				<b>81</b>

## **FINANCE ADMINISTRATION**

### **Grants Administration Significant Events**

#### **Board Activities**

Since the last General Manager's report, Grants Administration has processed the following Board items:

- Four letters and a total of nine resolutions going to the IEUA Board meeting on November 18, 2015:
  - IEUA-JCSD Joint Regional Water Recycling Program (3 resolutions)
  - Pomona/MVWD/IEUA Recycled Water Intertie (3 resolutions)
  - RP-1/RP-5 Expansion PDR (2 resolutions)
  - Chino Creek Park Habitat Conservation Fund (1 resolution)
  
- Two letters and a total of six resolutions going to the CBRFA meeting on November 18, 2015:
  - IEUA-JCSD Joint Regional Water Recycling Program (3 resolutions)
  - Pomona/MVWD/IEUA Recycled Water Intertie (3 resolutions)

#### **Grant/Loan Opportunities and Applications**

The Agency's Grant Administration group is continuing to pursue additional grant opportunities as they become available to offset project costs, including;

#### **California Department of Parks and Recreation Grant Application–Habitat Conservation Fund Program**

- On October 1, 2015, IEUA submitted a grant application for the Habitat Conservation Fund Program-Wildlife Area Activities (HCF) to the California Department of Parks and Recreation requesting \$67,500 in HCF grant funding.

IEUA proposed the free Wetlands Event and Education Program that will be hosted at the Chino Creek Wetlands and Educational Park known as Wetlands Quest Education Program (Quest). In addition, a busing scholarship will also be offered. This educational program would focus on junior high and high school age children.

The Quest is designed to meet the growing need of integrating middle/high school age students with the natural environment by using the wetlands to create hands-on learning experiences. The Busing Sponsorship will give low-income neighborhood schools/organizations, which are unable to afford busing, the opportunity to experience the Quest. The funding will be used towards planning and operating the Quest field trip program and busing scholarship program.

#### **SWRCB – 2015 Drought Relief 1%, 30-Year SRF loan and Prop 1 Grant Opportunity**

IEUA staff are working on three applications for the 2015 Drought Relief SRF loan/grant opportunities that are due December 2, 2015. They are as follows:

- **2015 Drought Relief Recycled Water Supply Optimization Program.**

The Program will deliver an estimated 2,500 acre-fee per year (AFY) of recycled water implementing the following projects:

2015 Drought Relief Recycled Water Distribution System Optimization Project IEUA and City of Ontario Joint Grants and SRF Loan Application					
Project	PM	Project Description	SRF loan	Grant	Loan/Grants
EN13C01	Joe	San Severa Basins Pipeline	\$ 4,660,000	1,800,000	6,460,000
EN14C41	Jama	RP-5 Process Control Migration	\$ 196,000	84,000	280,000
EN14C42	Joe	RP-1 1158 RWPS Upgrades	\$ 2,800,000	1,200,000	4,000,000
EN14C43	Jama	RP-5 RW Pipelines Bottleneck	\$ 840,000	360,000	1,200,000
EN13C48	Adham	RP-1 Electric Power	\$ 1,050,000	450,000	1,500,000
EN13C39	Adham	RP-1 Paralle Outlet Pipeline	\$ 3,500,000	1,500,000	5,000,000
EN16C34	Joe	RW Pressure Sustaining Valve & Meters	\$ 1,190,000	510,000	1,700,000
EN17C37	Adham	93C-80C West COWRF PRV	\$ 420,000	180,000	600,000
WR15C21	Nashin	Napa Laterals/Speedway	\$ 4,200,000	1,800,000	6,000,000
Ontario	Liza/Jose	Ontario Euclid & Riverside St. Pipeline	\$14,000,000	6,000,000	20,000,000
		Contingency (15%)	\$ 5,826,000	2,116,000	6,942,000
		<b>Total</b>	<b>\$38,682,000</b>	<b>\$15,000,000</b>	<b>\$53,682,000</b>

- **City of Pomona, Monte Vista Water District and Inland Empire Utilities Agency Recycled Water Intertie Project**

IEUA filed a pre-application for this project in October 2015 on behalf of the Chino Basin Regional Financing Authority (CBRFA). The Project is a collaborative effort between the Inland Empire Utilities Agency (IEUA), the City of Pomona (Pomona), and Monte Vista Water District (MVWD). The application will include the construction of approximately 38,000 lineal feet (LF) of 12-inch pipeline, a booster station and a three million gallon per day (MGD) advanced treatment plant facility. The recycled water and groundwater will be transmitted from Pomona to the advanced water treatment facility. Treated water will be conveyed to IEUA's groundwater recharge basin to replenish the aquifer.

This Project will deliver 1,100 AFY of recycled water to recharge groundwater basins, address land subsidence concerns, and provide a direct use irrigation source for industries in the region. This project demonstrates the integrated regional approach of recycled water supply optimization.

- **Joint IEUA - JCSD Regional Water Recycling Program**

IEUA filed a pre-application in October 2015 on behalf of the CBRFA. The subject project is a collaboration of IEUA, Jurupa Community Services District (JCSD), and Western Municipal Water District (WMWD). This project will deliver 3,000 AFY of recycled water for groundwater recharge and provide direct use for multiple public lands that currently use potable water. Further, the project will provide additional non-potable water for private agricultural enterprises throughout the region. This project has a total cost of approximately \$52 million.

Specifically, the project entails the planning, design, and construction of the following: 750 horsepower (HP) booster station at the Western Riverside County Regional Wastewater Authority's Treatment Plant, 31,600 LF of 24-inch diameter transmission pipeline, an "in-

line" 750 HP booster station, 47,800 LF of 18-inch and 12-inch distribution pipeline system, and pressure reducing stations.

**SWRCB CWSRF Loan- Planning or Design**

• **Regional Plant No. 1 and Regional Plant No. 5 Expansion Preliminary Design Report (PDR)**

The SWRCB administers a program for planning or design funding through the Clean Water State Revolving Fund (CWSRF) Program. IEUA is in the process of filing an application requesting CWSRF planning or design program funds for the Regional Plant No. 1 and Regional Plant No. 5 Expansion Preliminary Design Report. The application will include the preparation of the Preliminary Design Report (PDR) for the RP-1 and RP-5 Expansion Project. The PDR will establish the project management plan, set the requirements of the future expansions, and develop the preliminary design for the future projects in terms of major technologies, estimated cost, and schedule. The application will request \$3,000,000 in SRF loan funding.

**USBR I WaterSMART: Title XVI Water Reclamation and Reuse Program Funding for Fiscal Year 2016**

IEUA is preparing applications for the following two projects under the USBR Title XVI Program that are due December 10, 2015:

• **CVWD Recycled Water Project**

This application will include the two projects listed in the table below. The two projects will serve customers within the cities of Rancho Cucamonga and Fontana with recycled water as well as improve the reliability of the regional recycled water system.

Project Name	Cost
1630 Baseline Pipeline-E	\$ 5,580,000.00
Heritage Village Lateral	\$ 2,000,000.00
Total	\$ 7,580,000.00
USBR Title XVI 25% Grant	\$ 1,895,000.00

• **Chino Desalter Phase 3 Expansion**

This application will request additional funding four projects that have been awarded grants under a \$26,000,000 Congressional Authorization for the Lower Chino Dairy Area Desalination Project. The following projects will be included in the application:

- Groundwater Supply Wells and Raw Water Pipelines
- Chino Creek Wells 19A, 20, 21
- 1010 Zone Pump Station and Product Water Pipelines
- Brine Concentrate Reduction Facilities

The amount currently available for the Congressional authorization is \$12,448,910. The maximum grant currently allowed for the title XVI grants is \$4 million; however, there is a possibility that this amount could be increased.

### **Single Audit of Federal Grants**

- The Single Audit Act and Office of Management and Budget (OMB) Circular A-133, Audits of State, Local Governments, and Non-Profit Organizations, require each non-Federal entity that expends/ receives \$500,000 or more of Federal grants in a fiscal year to undergo an annual independent audit. The Agency's external auditor, White Nelson Diehl Evans, LLP, conducted an audit in October 2015. The audit of internal control over compliance with grant laws, regulations, and contracts for each Federal grant project went very smoothly. The audit reporting package when completed in December 2015 will be submitted to the Federal Audit Clearinghouse and the State Controller's Office.

### **Grant Reimbursements and Reporting Activities**

The following is a status update on several existing contracts for various grants and loans:

- DPR Water Discovery Bussing Project – A contract extension will be requested, moving the contract completion date from January 31, 2016 to December 31, 2016, in order to claim the full \$207,900 grant.
- USBR Wells 1,2,3 project – A contract extension will be requested, moving the contract completion date from January 31, 2016 to March 31, 2017 in order to claim the full \$1,516,095 grant. Invoicing has been completed for costs through September 30, 2015 in the amount of \$21,581.66.
- MWD Recycled Water Intertie Study – Invoicing is complete, pending final report approval before claiming retention. Total invoiced for October is \$3,630.25. The total invoiced to date is \$19,597.57, and MWD is withholding \$4,889.40 as retention.
- MWD Pilot Scale 3-D Fluorescence Excitation Emissions Matrix – Invoicing is complete, final report to be submitted in February 2016, final report needs to be approved before claiming retention. Total invoiced for October is \$9,890.14. Total invoiced to date is \$50,000, and MWD is withholding \$12,500 as retention.
- SWRCB New Main Lab and Central Expansion Chiller – 50% design has been completed for the Lab and 30% design has been completed for the Central Expansion Chiller.