

*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

## TABLE OF CONTENTS

<b>INTRODUCTION.....</b>	<b>1</b>
<b>DEMANDS .....</b>	<b>2</b>
<b>USE TYPE DEMANDS .....</b>	<b>3</b>
<b>RETAIL DEMANDS .....</b>	<b>4</b>
<b>CUSTOMERS DEMANDS .....</b>	<b>5</b>
<b>ECONOMIC AND ENVIRONMENTAL IMPACTS.....</b>	<b>6</b>
<b>HISTORY .....</b>	<b>6</b>
<b>RECYCLED WATER CAPITAL PROGRAM .....</b>	<b>9</b>
<b>PROJECTS COMPLETED .....</b>	<b>9</b>
<b>PROJECTS IN CONSTRUCTION .....</b>	<b>9</b>
<b>PROJECTS IN DESIGN .....</b>	<b>10</b>
<b>FUTURE REUSE PROJECTS .....</b>	<b>10</b>
<b>TREATMENT PLANTS.....</b>	<b>11</b>

## FIGURES

<b>Figure 1 - IEUA Service Area.....</b>	<b>1</b>
<b>Figure 2 - Annual Direct Use and Groundwater Recharge.....</b>	<b>2</b>
<b>Figure 3 - Recycled Water Demand by Use Type .....</b>	<b>3</b>
<b>Figure 4 - Recycled Water Demand by Retail Agency.....</b>	<b>5</b>
<b>Figure 5 - RP-1 Treatment Process .....</b>	<b>12</b>
<b>Figure 6 - RP-4 Treatment Process .....</b>	<b>14</b>
<b>Figure 7 - CCWRF Treatment Process .....</b>	<b>16</b>
<b>Figure 8 - RP-5 Treatment Process .....</b>	<b>18</b>

## TABLES

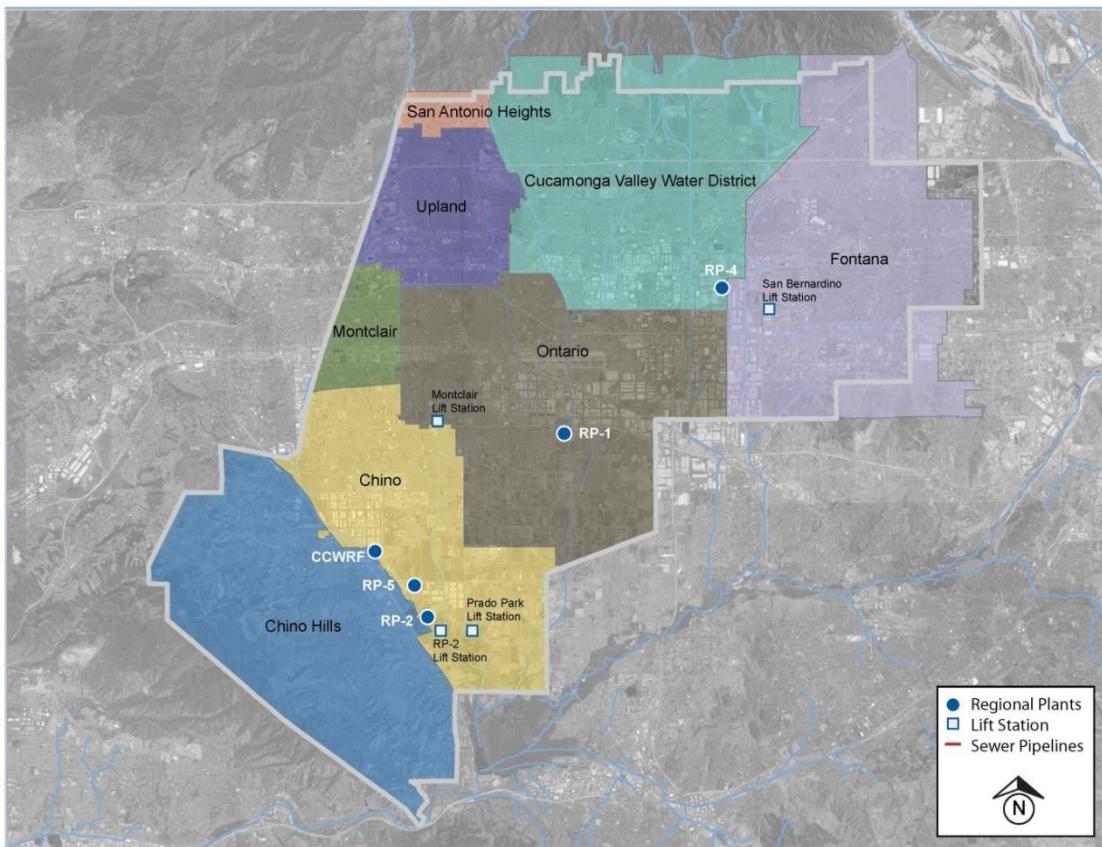
<b>Table 1 - Recycled Water Demand by Use Type .....</b>	<b>3</b>
<b>Table 2 - Recycled Water Demand by Retail Agency .....</b>	<b>4</b>
<b>Table 3 - Top 10 Recycled Water Customers for 2014/15 .....</b>	<b>5</b>
<b>Table 4 - Retail Agency Water Rates for 2014/15 .....</b>	<b>7</b>
<b>Table 5 - Capital Project Summary for 2014/15 .....</b>	<b>9</b>

## APPENDICES

<b>APPENDIX A</b>	<b>Recycled Water Effluent Monitoring Data</b>
<b>APPENDIX B</b>	<b>Recycled Water Compliance Data</b>
<b>APPENDIX C</b>	<b>Recycled Water Users and Demands</b>

## 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.

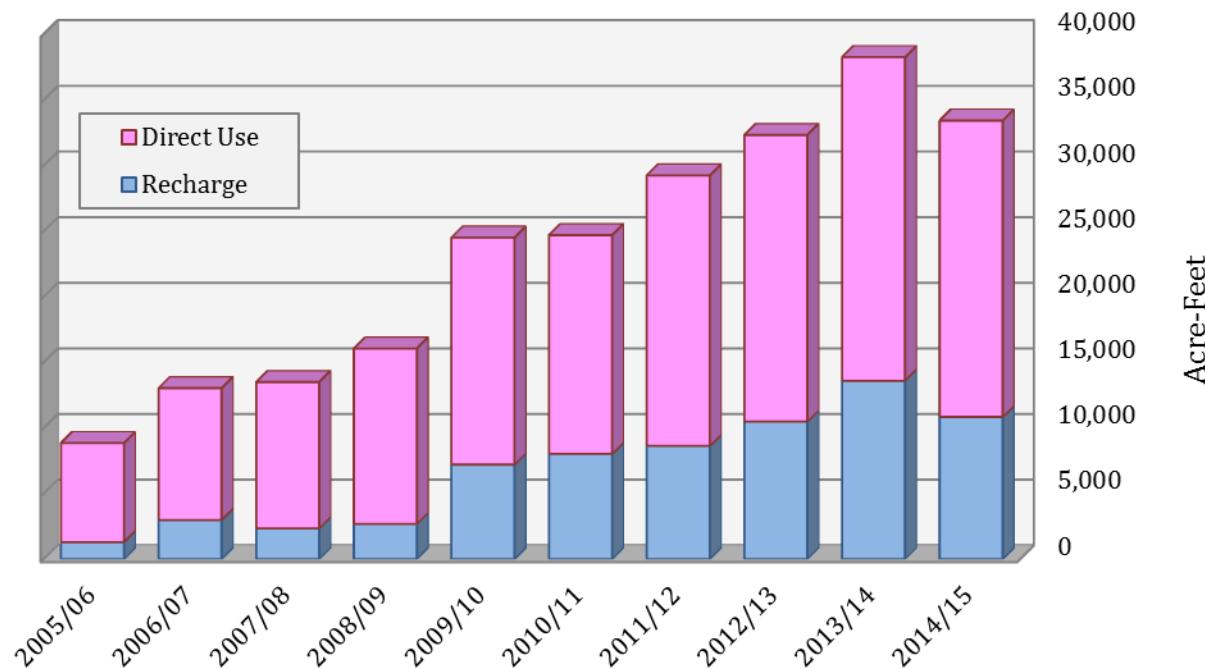


**Figure 1 - IEUA Service Area**

## 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.



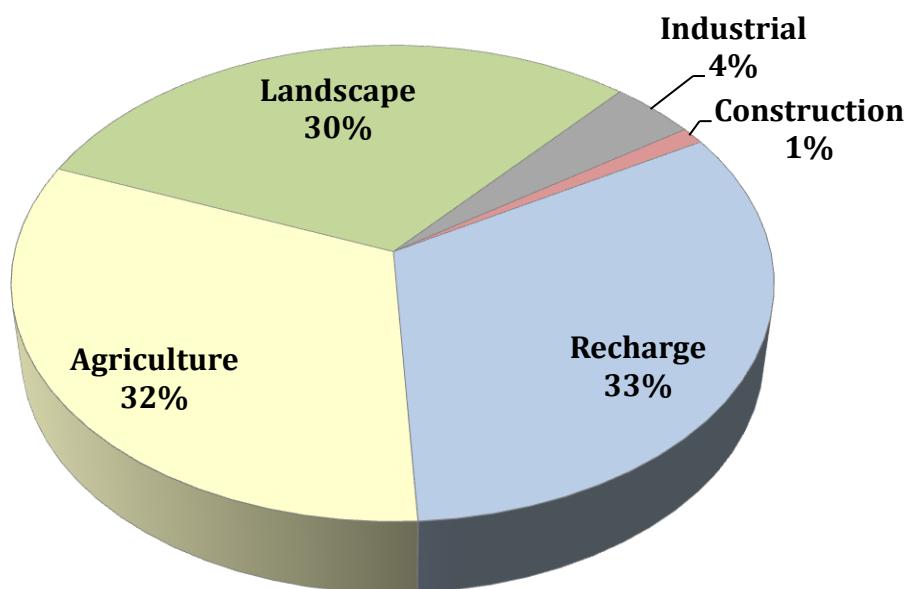
**Figure 2 - Annual Direct Use and Groundwater Recharge**

## 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:

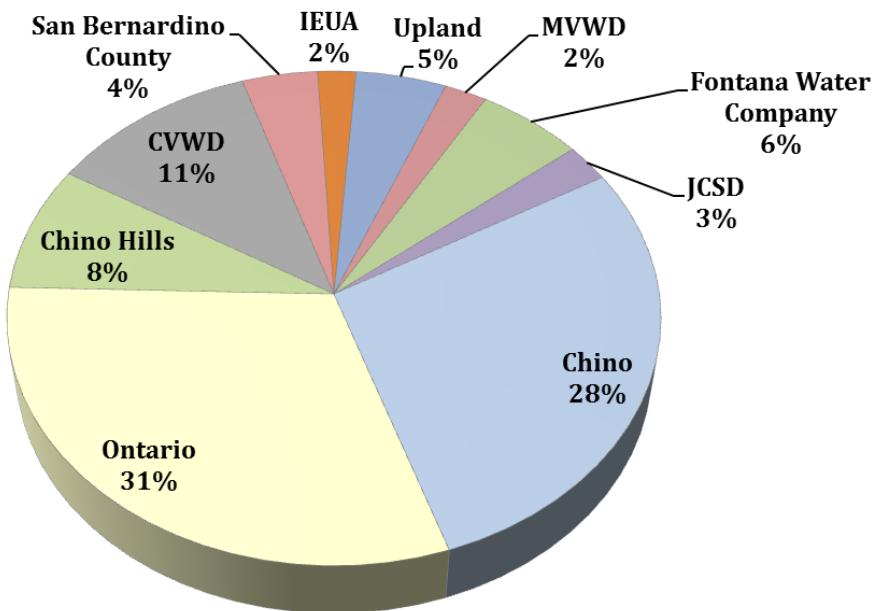
- City of Chino,
- City of Chino Hills,
- City of Ontario,
- Cucamonga Valley Water District (CVWD),
- Monte Vista Water District (MVWD), and
- City of Upland

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
Nyenhuis 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			\$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
Recycled Water	Non-residential	Domestic Water	Flat Rate	\$2.18
	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:	\$1.60	
		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**

<b>Projects in Design/Construction</b>	<b>Engineering Budget</b>	<b>Total Grants</b>	<b>Total Loans</b>	<b>FY14/15 Expenses</b>
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 Sevaine 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.*



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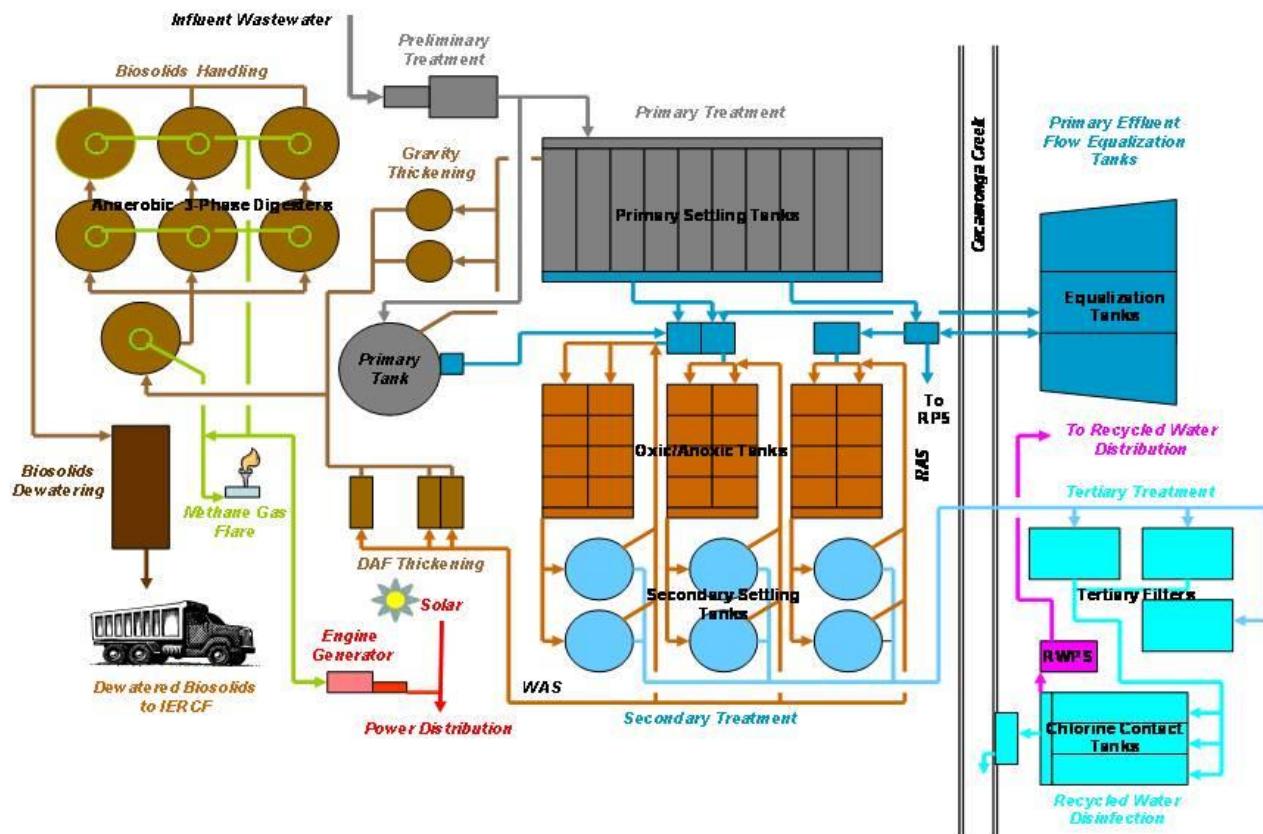


Figure 5 - RP-1 Treatment Process

### ***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.*



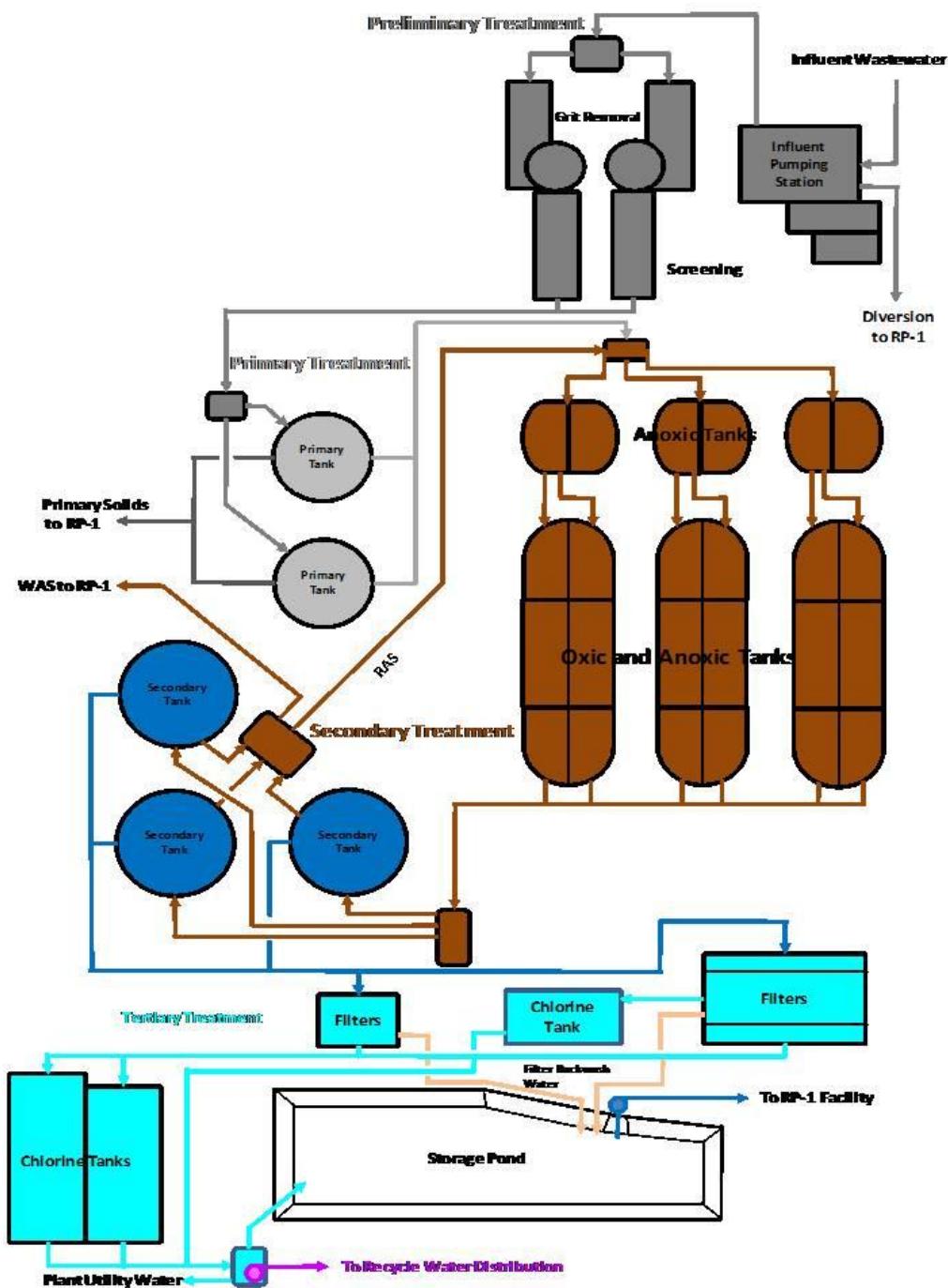


Figure 6 - RP-4 Treatment Process

### ***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.

#### ***Carbon Canyon Water Recycling Facility***

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



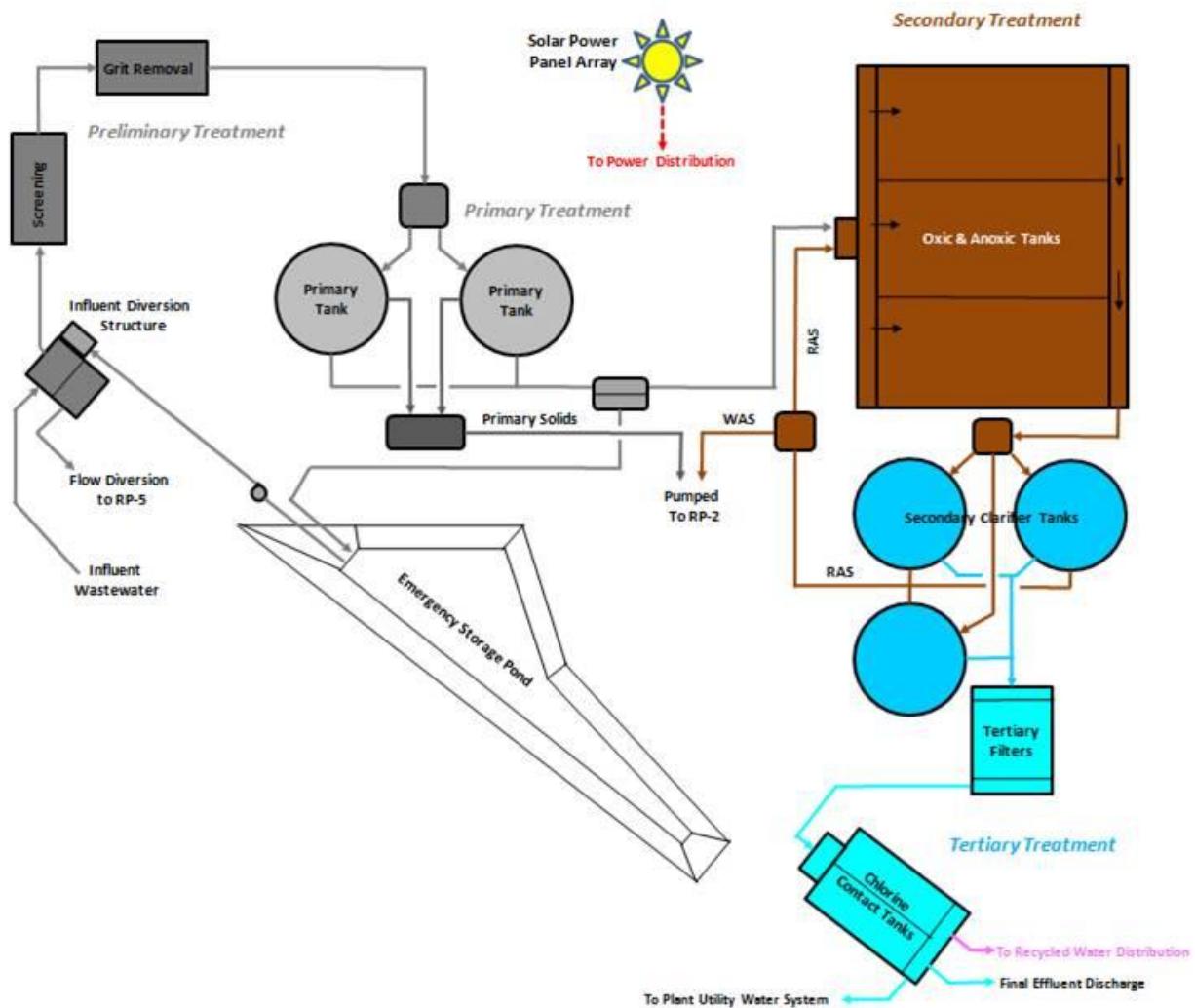


Figure 7 - CCWRF Treatment Process

### ***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



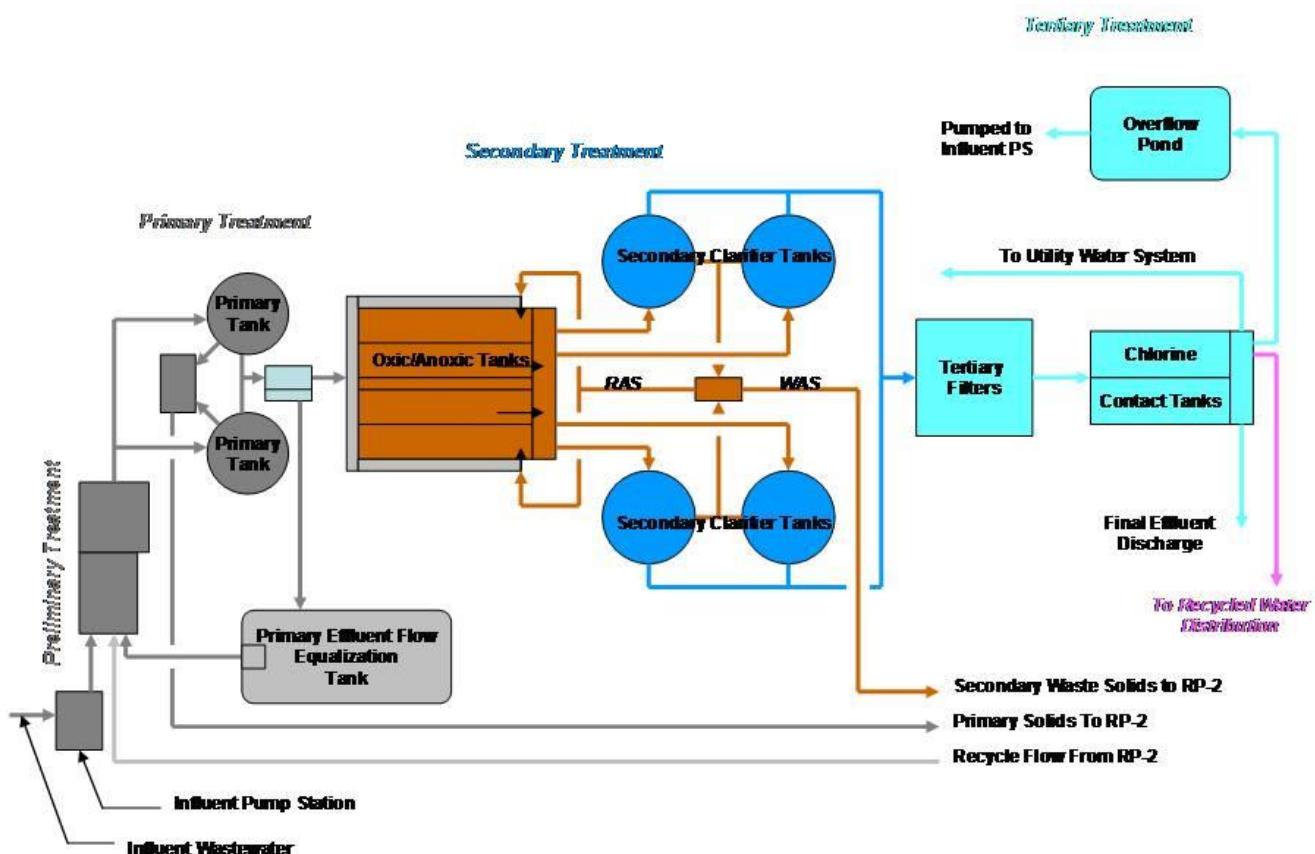


Figure 8 - RP-5 Treatment Process

**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**

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

**Table No. 3a**

	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 Dis	Avg	Min	Max	Avg Dis	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max									
	Date	MGD		μmhos/cm			unit		mg/L		%	mg/L		%	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L												
Limit>>>																																		4.5							
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	0.4	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	0.4	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	0.4	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	0.4	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	0.4	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	0.4	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	0.4	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	0.5	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	0.6	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	0.4	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	0.5	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	0.6	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	0.5	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	0.4	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	3	0.6	<2	<2	2	0.6	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.

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

**Table No. 3b**

	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 Dis	Avg	Min	Max	Avg Dis	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max									
	Date	MGD		μmhos/cm			unit		mg/L		%	mg/L		%	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L										
Limit>>>																																	4.5								
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	0.5	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	0.5	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	0.5	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	0.4	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	0.5	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	0.5	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	0.5	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	0.5	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	0.6	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	0.5	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	0.6	5.8	5.3	6.1	582	566																			

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

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

	RP-5 (M-003) Effluent Monitoring Data												Table No. 3c																			
	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 Dis	Avg	Min	Max	Avg Dis	Avg	Min	Max	Avg	Min	Max												
Date	MGD			μmhos/cm			unit			mg/L			%			mg/L			mg/L			mg/L			mg/L							
Limit>>>				6.5 -8.5			20			15			20			15												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	<2	<2	5	0.7	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	<2	<2	3	0.6	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	<2	<2	5	0.6	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	<2	<2	3	0.7	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	<2	<2	3	0.7	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	<2	<2	4	0.7	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	<2	<2	2	0.9	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	<2	<2	2	0.6	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	<2	<2	2	0.8	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	<2	<2	<2	0.7	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	<2	<2	4	0.8	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	<2	<2	8	0.9	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	<2	<2	4	0.7	4.6	4.1	5.4	550	538	562	5.7	4.3	7.7	5.4	5.4	5.4	0.2	<0.1	0.3
Min	0.0	0.0	0.0	863	765	941	6.7	6.5	6.9	<2	<2	<2	0.5	<2	<2	<2	0.6	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	<2	<2	8	0.9	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

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

	CCWRF (M-004) Effluent Monitoring Data												Table No. 3d																			
	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 Dis	Avg	Min	Max	Avg Dis	Avg	Min	Max	Avg	Min	Max												
Date	MGD			μmhos/cm			unit			mg/L			%			mg/L			mg/L			mg/L			mg/L			mg/L				
Limit>>>				6.5 -8.5			20			15			20			15												4.5				
Jan-14	6.0	2.9	10.5	906	874	983	6.8	6.5	7.7	<2	<2	<2	0.5	<2	<2	<2	1.2	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	<2	<2	<2	1.2	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	<2	<2	<2	0.7	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	<2	<2	2	0.6	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	<2	<2	9	0.6	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	<2	<2	10	0.7	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	<2	<2	4	0.6	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	<2	<2	5	0.7	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	<2	<2	5	0.7	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	<2	<2	6	0.6	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	<2	<2	2	0.6	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	<2	<2	14																

Inland Empire Utilities Agency

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

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

Table No. 5a

	001 Turbidity		002 Turbidity		001 Temp		002 Temp		001 Daily Coliform		001 7-day Median		002 Daily Coliform*		002 7-day Median		001 FLR	001 DT	001 CT	002 FLR	002 DT	002 CT		
	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Max	Min	Min	Max	Min	Min		
Date	NTU		NTU		°C		°C		MPN / 100 mL										gpm/ft <sup>2</sup>	min	mg-min/L	gpm/ft <sup>3</sup>	min	mg-min/L
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	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	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	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	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	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	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	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	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	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	<2	<2	12	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	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	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	<2	<2	3	144	669	3	167	763			
Min	0.6	0.7	0.5	0.7	23.6	24.2	23.1	23.5	<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	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).

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

Table No. 5b

	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	003 CT	004 FLR	004 DT	004 CT		
	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Max	Min	Min	Max	Min	Min		
Date	NTU		NTU		°C		°C		MPN / 100 mL										gpm/ft <sup>2</sup>	min	mg-min/L	gpm/ft <sup>3</sup>	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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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

Inland Empire Utilities Agency

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

RP-1 (M-001A) & RP-1/RP-4 (M-002A) Effluent and Receiving Water (R-002U & R-002D) Data

Table No. 6a

Date	M-001A Cl <sub>2</sub> Residual*		M-002A Cl <sub>2</sub> Residual*		Upstream Cucamonga Creek (R-002U)								Downstream Cucamonga Creek (R-002D)										
					DO		Temp		pH		TDS	TIN	Total Hardness	TSS	DO		Temp		pH		Total Hardness	TSS	
	Avg	Max	Avg	Max	Avg	Min	Max	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Min	Max	Avg	Max	Min	Max	Avg	Avg
mg/L				mg/L		°C		unit		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Jan-14	0.0	0.0	0.0	0.0	13.5	12.1	13.9	17.7	9.1	10.8	292	1.0	176	5	11.2	10.0	20.6	23.1	7.9	8.4	161	4	
Feb-14	0.0	0.0	0.0	0.0	13.8	12.7	17.6	23.9	10.1	11.3	388	3.1			12.7	11.0	22.5	25.3	8.1	9.1			
Mar-14	0.0	0.0	0.0	0.0	13.0	10.4	15.7	24.2	9.1	10.4	410	3.4			9.4	8.2	22.7	25.1	7.8	8.7			
Apr-14	0.0	0.0	0.0	0.0	11.3	10.3	17.5	18.5	8.9	9.8	430	2.9	187	4	10.2	9.0	22.4	23.2	8.2	8.4	166	8	
May-14	0.0	0.0	0.0	0.0	15.1	11.9	21.3	26.5	9.3	10.3	660	2.9			11.9	10.9	22.6	24.9	8.7	9.3			
Jun-14	0.0	0.0	0.0	0.0	12.3	11.6	20.0	21.0	9.4	9.5	374	4.6			10.6	10.3	22.3	23.1	8.6	9.0			
Jul-14	0.0	0.0	0.0	0.0	10.6	9.6	21.5	22.8	8.9	9.5	550	0.9	232	10	9.4	8.1	23.4	24.6	8.1	9.0	240	9	
Aug-14	0.0	0.0	0.0	0.0	11.9	10.8	20.2	21.6	9.2	9.6	438	4.6			9.8	8.8	23.9	25.0	8.4	8.7			
Sep-14	0.0	0.0	0.0	0.0	11.7	9.2	24.4	30.8	9.0	9.9	586	4.9			8.5	7.2	26.3	31.5	8.3	9.2			
Oct-14	0.0	0.0	0.0	0.0	11.9	10.2	18.2	19.1	9.1	10.0	242	0.6	127	30	9.2	8.1	22.6	24.2	8.2	9.1	158	4	
Nov-14	0.0	0.0	0.0	0.0	13.7	11.9	12.6	16.6	9.1	9.9	450	2.2			9.5	8.3	22.5	24.9	7.8	8.7			
Dec-14	0.0	0.0	0.0	0.0	12.5	11.3	15.0	18.4	8.9	9.7	690	3.6			8.8	6.7	22.8	23.5	7.6	7.8			
Avg	0.0	0.0	0.0	0.0	12.6	11.0	18.1	21.8	9.2	10.1	459	3.1	181	12	10.1	8.9	22.9	24.9	8.1	8.8	181	6	
Min	0.0	0.0	0.0	0.0	10.6	9.2	12.6	16.6	8.9	9.5	242	0.6	127	4	8.5	6.7	20.6	23.1	7.6	7.8	158	4	
Max	0.0	0.0	0.0	0.0	15.1	12.7	24.4	30.8	10.1	11.3	690	4.9	232	30	12.7	11.0	26.3	31.5	8.7	9.3	240	9	

RP-5 (M-003) & CCWRF (M-004) Effluent and Receiving Water (R-003U, R-003D, & R-004U) Data

Table No. 6b

Date	M-003 Cl <sub>2</sub> Residual*		M-004 Cl <sub>2</sub> Residual*		Upstream Chino Creek (R-003U)								Downstream Chino Creek (R-003D)								Upstream Chino Creek (R-004U)													
					DO		Temp		pH		TDS	TIN	Total Hardness	TSS	DO		Temp		pH		Total Hardness	TSS	DO		Temp		pH		TDS	TIN	Total Hardness	TSS		
	Avg	Max	Avg	Max	Avg	Min	Avg	Max	Min	Max	Avg	Avg	Avg	Min	Max	Min	Max	Avg	Avg	Avg	Min	Max	Avg	Avg	Min	Max	Avg	Avg	Min	Max	Avg	Avg		
mg/L				mg/L		°C		unit		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
Jan-14	0.0	0.0	0.0	0.0	8.5	7.6	21.1	23.1	7.8	8.8	544	4.6	165	22	7.6	7.0	18.9	20.5	9.4	10.3	272	7	12.0	9.1	15.5	23.0	8.0	9.8	876	3.9	488	2		
Feb-14	0.0	0.0	0.0	0.0	8.5	7.5	21.6	23.2	8.1	8.5	524	4.7			7.6	7.5	20.5	21.6	7.8	10.1			10.9	9.7	20.0	26.5	6.7	11.2	618	6.0				
Mar-14	0.0	0.0	0.0	0.0	8.8	7.4	22.8	23.6	8.1	9.6	538	4.6			7.5	6.5	21.5	22.8	7.5	8.5			12.5	10.3	18.0	23.3	8.4	9.6	384	2.9				
Apr-14	0.0	0.0	0.0	0.0	11.0	7.7	23.7	24.8	8.5	9.4	538	4.2	186	5	6.4	5.4	22.8	24.8	7.5	7.7	260	17	10.4	9.8	22.6	26.6	9.3	10.6	772	3.1	448	12		
May-14	0.0	0.0	0.0	0.0	12.5	10.5	26.3	31.0	8.7	10.1	600	5.9			5.9	5.7	23.7	24.8	7.2	7.9			12.0	11.6	24.3	29.1	9.7	10.8	794	1.4				
Jun-14	0.0	0.0	0.0	0.0	13.0	8.4	27.8	30.1	8.1	9.0	574	5.3			8.0	5.6	26.3	30.1	7.2	8.6			9.8	8.1	27.4	32.3	9.0	10.2	756	1.3				
Jul-14	0.0	0.0	0.0	0.0	13.2	7.7	30.4	33.1	7.7	10.1	564	4.3	176	2	5.5	5.4	24.3	24.3	7.4	7.4	353	9	11.2	10.7	30.9	38.8	8.8	10.7	718	0.6	385	18		
Aug-14	0.0	0.0	0.0	0.0	13.7	9.8	30.2	32.9	8.5	10.8	586	6.2																						
Sep-14	0.0	0.0	0.0	0.0	10.0	7.4	28.2	31.5	8.5	9.3	586	6.1																						
Oct-14	0.0	0.0	0.0	0.0	9.0	6.3	27.5	29.7	8.9	9.5	612	6.1	177	9																				
Nov-14	0.0	0.0	0.0	0.0	10.2	8.7	24.5	26.5	9.3	9.6	556	6.0			6.8	6.6	18.9	21.0	6.7	6.8	237	10	13.2	11.1	21.7	24.4	10.6	12.7	952	5.3				
Dec-14	0.0	0.0	0.0	0.0	9.2	7.9	21.3	24.9	9.3	10.3	678	5.7			6.9	6.3	21.6	22.5	6.7	7.0			15.0	13.5	16.9	20.4	7.5	12.7	978	3.1				
Avg	0.0	0.0	0.0	0.0	10.6	8.1	25.4	27.9	8.5	9.6	575	5.3	176	10	6.9	6.2	22.6	23.6	7.7	8.7	281	11	11.7	10.1	23.2	28.5	8.9	11.0	731	2.8	440	390		
Min	0.0	0.0	0.0	0.0	8.5	6.3	21.1	23.1	7.7	8.5	524	4.2	165	2	5.5	5.4	18.9	20.5	7.2	7.4	237	7	9.8	8.1	15.5	20.4	6.7	9.6	384	0.6	385	2		
Max	0.0	0.0	0.0	0.0	13.7	10.5	30.4	33.1	9.3	10.8	678	6.2	186	22	8.0	7.5	26.3	30.1	9.4	10.3	353	17	15.0	13.5	30.9	38.8	10.6	12.7	978	6.0	488	1,528		

\* A chlorine residual of 0.0 mg/L signifies a positive sodium bisulfite residual and a negative chlorine residual.

Inland Empire Utilities Agency

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

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

**Table No. 7a**

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
	Avg	Avg	Avg	Min	Avg	Max	Avg	Max	Avg	Avg	Avg	Avg	Avg	Avg	Min	Avg	Max	Avg	Max	Avg	Avg	Avg
mgd		unit	NTU	mg-min/L	MPN / 100 mL				mg/L		mgd		unit	NTU	mg-min/L	MPN / 100 mL				mg/L		
Jan-14	13.9	7.1	0.6	613	<2	2	<2	<2	<2	<2	503	8.5	7.0	0.7	852	<2	<2	<2	<2	<2	<2	483
Feb-14	10.7	7.1	0.6	608	<2	4	<2	2	<2	<2	510	7.1	7.0	0.7	491	<2	2	<2	<2	<2	<2	486
Mar-14	8.1	7.1	0.6	699	<2	4	<2	<2	<2	<2	482	6.2	7.1	0.5	655	<2	<2	<2	<2	<2	<2	452
Apr-14	13.8	7.2	0.6	690	<2	2	<2	<2	<2	<2	508	8.3	7.3	0.5	577	<2	2	<2	<2	<2	<2	484
May-14	15.4	7.2	0.7	783	<2	2	<2	<2	<2	<2	508	9.7	7.1	0.4	748	<2	2	<2	<2	<2	<2	494
Jun-14	22.0	7.3	0.6	787	<2	<2	<2	<2	<2	<2	492	10.1	7.0	0.4	541	<2	<2	<2	<2	<2	<2	477
Jul-14	21.8	7.4	0.7	710	<2	2	<2	<2	<2	<2	489	10.4	7.0	0.3	657	<2	<2	<2	<2	<2	<2	451
Aug-14	22.9	7.4	0.6	619	<2	2	<2	<2	<2	<2	508	10.0	7.1	0.4	655	<2	<2	<2	<2	<2	<2	453
Sep-14	21.7	7.3	0.6	665	<2	2	<2	<2	<2	<2	506	9.2	7.2	0.7	758	<2	<2	<2	<2	<2	<2	521
Oct-14	18.5	7.3	0.6	587	<2	12	<2	<2	<2	<2	532	4.7	7.3	0.5	801	<2	<2	<2	<2	<2	<2	513
Nov-14	13.4	7.2	0.7	675	<2	2	<2	<2	<2	<2	558	12.1	7.3	0.4	711	<2	2	<2	<2	<2	<2	513
Dec-14	2.3	7.1	0.6	629	<2	2	<2	<2	<2	<2	563	29.0	7.3	0.3	823	<2	<2	<2	<2	<2	<2	526
Avg	15.4	7.2	0.6	673	<2	3	<2	<2	<2	<2	513	10.4	7.1	0.5	683	<2	<2	<2	<2	<2	<2	488
Min	2.3	7.1	0.6	587	<2	<2	<2	<2	<2	<2	482	4.7	7.0	0.3	491	<2	<2	<2	<2	<2	<2	451
Max	22.9	7.4	0.7	787	<2	12	<2	2	<2	<2	563	29.0	7.3	0.7	852	<2	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
	Avg	Avg	Avg	Min	Avg	Max	Avg	Max	Avg	Avg	Avg	Avg	Avg	Avg	Min	Avg	Max	Avg	Max	Avg	Avg	Avg
mgd		unit	NTU	mg-min/L	MPN / 100 mL				mg/L		mgd		unit	NTU	mg-min/L	MPN / 100 mL				mg/L		
Jan-14	5.8	6.8	1.2	477	<2	<2	<2	<2	<2	<2	505	0.0	6.8	0.5	689	<2	<2	<2	<2	<2	<2	
Feb-14	4.9	6.7	1.1	506	<2	<2	<2	<2	<2	<2	490	0.0	6.7	0.3	627	<2	2	<2	<2	<2	<2	
Mar-14	3.7	6.8	1.3	501	<2	<2	<2	<2	<2	<2	505	0.0	7.0	0.4	566	<2	<2	<2	<2	<2	<2	
Apr-14	6.1	6.8	1.5	488	<2	2	<2	<2	<2	<2	518	5.1	7.1	0.6	495	<2	2	<2	<2	<2	<2	546
May-14	6.7	6.8	0.9	504	<2	2	<2	<2	<2	<2	531	6.4	6.9	0.7	579	<2	2	<2	<2	<2	<2	558
Jun-14	4.8	6.8	0.9	524	<2	2	<2	<2	<2	<2	514	6.2	6.8	0.6	543	<2	2	<2	<2	<2	<2	554
Jul-14	5.3	6.9	1.2	519	<2	<2	<2	<2	<2	<2	525	5.8	6.9	0.4	513	<2	2	<2	<2	<2	<2	537
Aug-14	4.1	6.9	1.0	509	<2	<2	<2	<2	<2	<2	525	5.4	7.0	0.4	504	<2	<2	<2	<2	<2	<2	565
Sep-14	4.9	6.8	1.2	675	<2	<2	<2	<2	<2	<2	533	6.2	6.9	0.4	476	<2	2	<2	<2	<2	<2	555
Oct-14	4.5	6.8	1.2	500	<2	<2	<2	<2	<2	<2	552	2.9	7.0	0.4	479	<2	<2	<2	<2	<2	<2	565
Nov-14	4.3	6.7	1.2	481	<2	2	<2	<2	<2	<2	572	0.4	7.1	0.5	493	<2	2	<2	<2	<2	<2	575
Dec-14	0.5	6.9	0.8	526	<2	2	<2	<2	<2	<2	561	0.3	7.1	0.4	591	<2	2	<2	<2	<2	<2	556
Avg	4.6	6.8	1.1	503	<2	<2	<2	<2	<2	<2	528	3.2	6.9	0.5	553	<2	2	<2	<2	<2	<2	556
Min	0.5	6.7	0.8	477	<2	<2	<2	<2	<2	<2	490	0.0	6.7	0.3	476	<2	<2	<2	<2	<2	<2	537
Max	6.7	6.9	1.5	526	<2	2	<2	<2	<2	<2	572	6.4	7.1	0.7	689	<2	2	<2	<2	<2	<2	575

Inland Empire Utilities Agency

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

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

**Table No. 8a**

Date Limits	Total Hardness	HCO <sub>3</sub> <sup>2-</sup>	B	Ca	CO <sub>3</sub> <sup>2-</sup>	Cl	F	Mg	Na	SO <sub>4</sub>	Cd, TR	Cr, Total	Cu, TR	Pb, TR	Hg, TR	Se, TR	Ag, TR	Zn, TR	Bis(2-ethylhexyl) phthalate	Bromodi-chloromethane	CN, Free*
	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
																			4.1 mo avg: 8.2 max daily	5.9 mo avg: 11.9 max daily	4.2 mo avg: 8.5 max daily
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		
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		
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		
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		
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		
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		
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		
Dec-14	158	139	0.3	47	0	132	0.3	10	114	80	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	25	<2		
Avg	159	145	0.3	48	0	121	0.2	10	107	58	<0.25	0.9	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**

**Table No. 8b**

Date Limits	Total Hardness	HCO <sub>3</sub> <sup>2-</sup>	B	Ca	CO <sub>3</sub> <sup>2-</sup>	Cl	F	Mg	Na	SO <sub>4</sub>	Cd, TR	Cr, Total	Cu, TR	Pb, TR	Hg, TR	Se, TR	Ag, TR	Zn, TR	Bis(2-ethylhexyl) phthalate	Bromodi-chloromethane	CN, Free*
	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
																			4.1 mo avg: 8.2 max daily	5.9 mo avg: 11.9 max daily	4.2 mo avg: 8.5 max daily
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	23	<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		
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		
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		
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		
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		
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		
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		
Dec-14	159	131	0.3	47	0	121	0.3	10	122	93	<0.25	<0.5	5	<0.5	<0.05	<2	<0.25	25	<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 R8-2009-0021

Inland Empire Utilities Agency

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

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

**Table No. 8c**

	Total Hardness	HCO <sub>3</sub> <sup>2-</sup>	B	Ca	CO <sub>3</sub> <sup>2-</sup>	Cl	F	Mg	Na	SO <sub>4</sub>	Cd, TR	Cr, Total	Cu, TR	Pb, TR	Hg, TR	Se, TR	Ag, TR	Zn, TR	Bis(2-ethylhexyl) phthalate	Bromodi-chloromethane	CN, Free*
Date	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
Limits																		5.9 mo avg; 11.9 max daily	46 mo avg; 92 max daily	4.6 mo avg; 7.3 max daily	
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	<2	27	<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

**CCWRF (M-004) Effluent Monthly Inorganic Data**

**Table No. 8d**

	Total Hardness	HCO <sub>3</sub> <sup>2-</sup>	B	Ca	CO <sub>3</sub> <sup>2-</sup>	Cl	F	Mg	Na	SO <sub>4</sub>	Cd, TR	Cr, Total	Cu, TR	Pb, TR	Hg, TR	Se, TR	Ag, TR	Zn, TR	Bis(2-ethylhexyl) phthalate	Bromodi-chloromethane	CN, Free*
Date	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
Limits																		5.9 mo avg; 11.9 max daily	4.3 mo avg; 8.5 max daily		
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	<2	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		
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		
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		
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		
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		
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		
Dec-14	182	128	0.3	55	0	137	0.2	11	106	72	<0.25	0.5	5	<0.5	<0.05	<2	<0.25	49	<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

\*Free Cyanide is analyzed using ASTM-D7237 for analysis of aquatic free cyanide in accordance with R8-2009-0021

Inland Empire Utilities Agency

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

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

	AI, TR	Sb, TR	As, TR	Ba, TR	Co, TR	Ni, TR
Date	µg/L	µg/L	µg/L	µg/L	µg/L	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

**Table No. 9a**

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

	AI, TR	Sb, TR	As, TR	Ba, TR	Co, TR	Ni, TR
Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	28	<1	<2	13	<1	3
	32	<1	<2	15	<1	2
	110	<1	<2	14	<1	3
	<25	<1	<2	14	<1	2
	34	<1	<2	17	<1	2
	44	<1	<2	17	<1	2
	40	<1	<2	13	<1	3
	36	<1	<2	15	<1	2
	43	<1	<2	15	<1	2
	35	<1	<2	17	<1	2
	40	<1	<2	14	<1	3
	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

**Table No. 9b**

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

	AI, TR	Sb, TR	As, TR	Ba, TR	Co, TR	Ni, TR
Date	µg/L	µg/L	µg/L	µg/L	µg/L	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						
Nov-14	41	<1	2	22	<1	2
Dec-14	<25	<1	<2	27	<1	2
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**

	AI, TR	Sb, TR	As, TR	Ba, TR	Co, TR	Ni, TR
Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	<25	<1	<2	13	<1	2
	<25	<1	<2	11	<1	2
	<25	<1	<2	8	<1	3
	30	<1	<2	12	<1	4
	43	<1	<2	14	<1	4
	35	<1	<2	11	<1	3
	46	<1	<2	15	<1	3
	77	<1	<2	17	<1	4
	34	<1	<2	14	<1	3
	46	<1	2	14	<1	2
	67	<1	2	15	<1	2
	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**

**Inland Empire Utilities Agency**

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

**Table No. 10**

Mo-Yr	Discharged Eff Flow			TIN						Agency-wide TIN					
	RP1/RP4	RP5	CC	RP1/RP4			RP5			CC			Discharge		12-MRA
				mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	mg/L	lbs/day	mg/L
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	
Avg	10.8	2.8	3.9	5.2	520	5.7	140	5.0	150	5.0	800	8	5,338	5.9	
Min	3.2	0.0	0.7	3.0	110	4.2	0	4.1	30	3.5	170	8	5,338	5.0	
Max	30.9	9.1	8.4	6.8	1,600	8.0	520	6.1	340	6.2	2,410	8	5,338	6.6	

# Inland Empire Utilities Agency

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

**Agency-wide TDS 12-Month Running Averages**

**Table No. 11**

Mo-Yr	Flows								Total Dissolved Solids (TDS)								Agency-wide TDS				
	RP-1 001 <sup>1</sup>		RP-4 002		RP-5 RP-5		CC RW		RP-1 001		RP-4 RW <sup>2</sup>		RP-5 RP-5		CC RW <sup>2</sup>		Discharge		Limit		12-MRA
	RW	002	RW	RW	CC	RW	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	flow wt. mg/L	total lbs/day	flow wt. mg/L	total lbs/day	flow wt. mg/L	
MGD																					
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	NA	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	NA	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	NA	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	546	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	558	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	554	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	537	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	565	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	555	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	565	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	575	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	556	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	556	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	537	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	575	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**

**INLAND EMPIRE UTILITIES AGENCY**

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

**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

**INLAND EMPIRE UTILITIES AGENCY**

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

**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
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
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**

**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

**INLAND EMPIRE UTILITIES AGENCY**

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

**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

INLAND EMPIRE UTILITIES AGENCY

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

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
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**

**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 PLACENICIA NURSERY	Agricultural	84.95
La Brucherie Farms	Agricultural	376.56
Nyenhius 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 Community 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 Bdno County Fairgrounds	Landscape	15.89

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

City of Chino		
Customer Name	Usage Type	Total Usage (AF)
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
Subtotal Landscape Usage		1,618.27
<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**

City of Chino Hills		
Customer Name	Usage Type	Total Usage (AF)
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**

Cucamonga Valley Water District (CVWD)		
Customer Name	Usage Type	Total Usage (AF)
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**

Cucamonga Valley Water District (CVWD)		
Customer Name	Usage Type	Total Usage (AF)
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>		
Customer Name	Usage Type	Total Usage (AF)
Genon Energy Plant	Industrial	326.73
IERCF	Industrial	13.80
	Subtotal Industrial Usage	340.53
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
	Subtotal Landscape Usage	354.65
	<b>IEUA Total Usage</b>	<b>695.18</b>

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

Monte Vista Elementary School (MVWD)		
Customer Name	Usage Type	Total Usage (AF)
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
Subtotal Landscape Usage		307.73
<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**

City of Ontario		
Customer Name	Usage Type	Total Usage (AF)
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**

Recharge		
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**

San Bernardino County		
Customer Name	Usage Type	Total Usage (AF)
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**

City of Upland		
Customer Name	Usage Type	Total Usage (AF)
Cal - Trans	Construction	0.22
Subtotal Construction Usage		0.22
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
Subtotal Agricultural Usage	Landscape	13.32
Upland Meadows Estates	Landscape	3.30
Upland Unified School District	Landscape	3.14
Western Inn	Landscape	4.90
Subtotal Landscape Usage		636.07
<b>City of Upland Total Usage</b>		<b>636.29</b>