

**2015 - 2016  
FISCAL YEAR  
BUDGET**

*Laguna Beach County Water District*

# **Laguna Beach County Water District 2015-2016 Annual Budget**

Adopted: June 18, 2015

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# District Overview

**S**ince 1925, the Laguna Beach County Water District (District) has proudly provided retail water service to our customers. The mission of the District is to furnish a high quality, reliable water supply in a financially responsible manner, while promoting water-use efficiency.

## History of the District

Until the early 1920's, the residents of Laguna Beach relied on privately owned shallow wells and intermittent rainfall for their water supply. Then, in the mid-20s, poor water quality and well failure combined to make an alternate water source urgent. The Laguna Beach County Water District was created by public vote in 1925. A year later, District voters approved a \$600,000 bond issue to purchase a well site in Huntington Beach, construct a transmission line, and acquire an existing private water company to provide service. The original bond was paid off in 1955.

With its continuing growth, the District was unable to rely solely on its wells and looked to imported water supplies. In 1943, it started purchasing Colorado River water supplied by the Metropolitan Water District of Southern California. Currently, all potable water is imported into Laguna Beach County Water District from both the State Water Project and the Colorado River. However, the District is again looking at various projects in the Santa Ana River Basin and elsewhere, as future sources of water.

## The District Today

The District provides water services to approximately 19,121 people within an 8.5 square mile area of southern Orange County, including portions of the city of Laguna Beach and Crystal Cove State Park.

On January 1, 2004, Emerald Bay Services District was deannexed from the District's service area. This represents approximately 1,086 customers (550 services) or 6 percent of the District's services and accounts for approximately 290 acre feet of water provided by the District. The District continues to provide water service and administrative support through an agreement with Emerald Bay Services District.

The District's approximately 8,090 service connections are mostly residential water users. This year, due to drought restrictions, the District will purchase about 3,080 acre-feet of water. This is equal to approximately 1.2 billion gallons delivered on an annual basis. An acre-foot of water is enough to cover a football field one-foot deep or serve two average sized households for a year.

## Operations

There are 21 water storage reservoirs with a total storage capacity of 33.5 million gallons within the District, providing up to approximately ten days of water to the community in the event of an emergency. These reservoirs are located within five elevation zones to ensure reliable distribution to all customers. They



are monitored by the District's state-of-the-art telemetry system, allowing District personnel to manage water distribution throughout the system from the District's headquarters. District staff operates and maintains 36 pumps in 14 pumping stations, a total approximate connected horsepower of 2,660. The system encompasses 135 miles of distribution pipelines, which range in diameter from 4 to 16 inches.

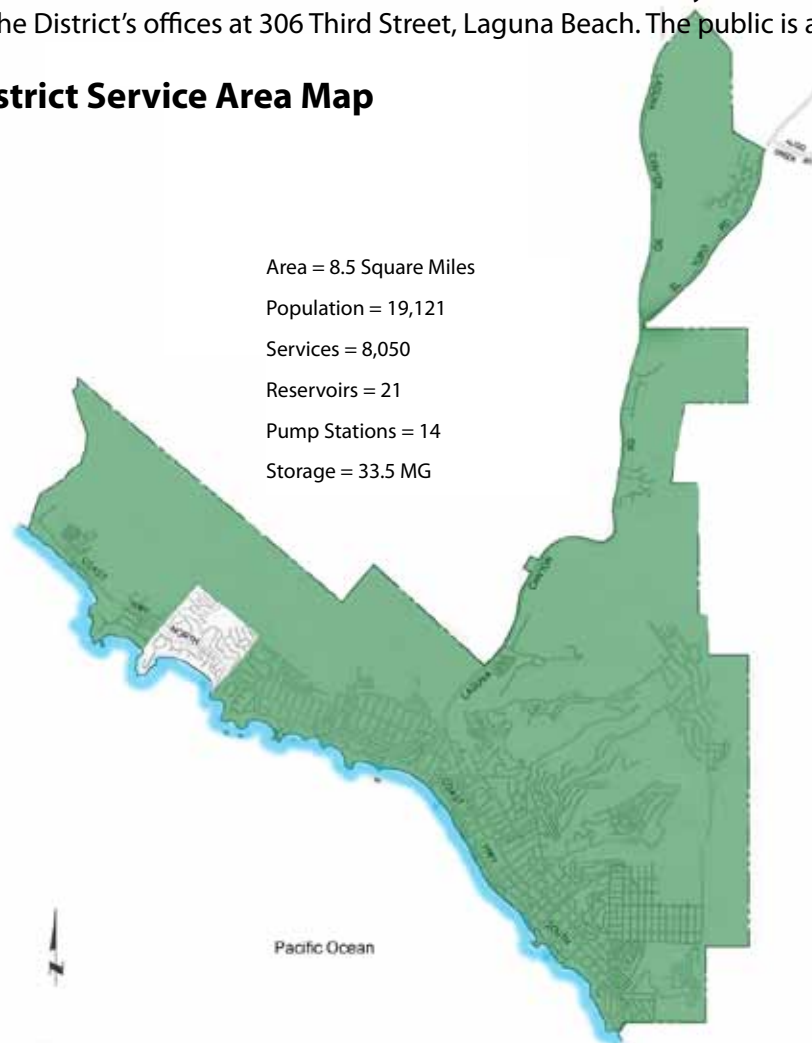
As lead agency in a joint powers relationship with the South Coast Water District, Irvine Ranch Water District, the city of Newport Beach, and the Santa Margarita Water District, the District also operates and maintains the Aufdenkamp and the Coast Supply transmission lines. These pipelines range in size from 24 to 42 inches in diameter and provide the District's imported water supply.

### How the District is Governed

The publicly-elected Laguna Beach City Council members serve as the Board of Directors of the Laguna Beach County Water District, providing local control over the policies and decisions affecting water service in the community. The Board meets quarterly. The public is welcome.

A District Commission is appointed by the Board to serve in an advisory capacity to the Board. The Commission meets the second and fourth Tuesday of each month at 4:30PM in the District's offices at 306 Third Street, Laguna Beach. The public is also welcome.

### District Service Area Map



# Budget Assumptions

**T**he proposed fiscal year (FY) 2015/16 Operating Budget decreases from the FY 2014/15 Operating Budget by 3.82 percent.

## Labor

The 2015/16 labor budget has increased 2.33 percent or \$94,090 above the 2014/15 budgeted amounts. This is based on the following factors:

- A. 44 Full-time positions (43 in 2014/15)
- B. 1 Part-time position (0 in 2014/15)
- C. Cost of Living Adjustment (COLA) 2015/16- 2 percent (2014/15-1 percent)
- D. Merit range remains at 0 to 2.5 percent based on performance.

## Benefits

The 2015/16 benefits budget has increased 1.46 percent or \$20,130 above the 2014/15 budgeted amount. This is based on the following factors:

### A. PERS

- 1. Employer Contribution 2015/16 – 8.51 percent plus approximate \$150,000 payment to Unfunded Liabilities (2014/15 – 9.72 percent)
- 2. Employee Contributions 2015/16 – 5 percent (2014/15 - 3 percent)
- 3. Employee Contributions hired after Jan 1, 2013 - 6.25 percent

### B. Insurance

- 1. Workers Comp Insurance E-Mod Rate 2015/16 - Estimated 67 percent (2014/15 -74 percent)
- 2. Workers Comp Insurance 2015/16 Rates remain the same.
- 3. Medical insurance increased January 2015 by 2 percent (was budgeted at 8.25 percent); projected increase January 2016 by 5 percent. Employee portion of medical insurance premium

2015/16-22.5 percent over single rate (2014/15-20 percent over single rate)

- 4. Dental Insurance increase of 5 percent.
- 5. All other insurance coverage remain at same levels as 2014/15 Budget.

## Water Purchases

The cost for water purchases will decrease by 13.8 percent or \$522,420 under 2014/15 estimate due to rate adjustments from Metropolitan Water District (MWD) and Municipal Water District of Orange County (MWDOC), and to less water purchased.

### A. Water Purchases

- 1. Estimated volume of water purchases is 3,080 acre feet (AF). (3,740AF in 2014/15)

### B. MWD Water Rates

- 1. MWD Water Rate - \$923/AF – July through December 2015. \$942/AF – January through June 2016
- 2. MWD RTS Charges - 2015/16 - \$230,860/yr (2014/15-\$251,690/yr)
- 3. MWD Capacity Charges -2015/16 - \$64,410 (2014/15 - \$57,140/yr)

- C. MWDOC Charges-2015/16 - \$10.85 per meter (10.50 in 2014/15)

## Water Sales

Water sales are estimated at 3,018 AF. The District is estimating a 2 percent unaccounted for water loss, which is the difference between the amount of water received and sold.

Water sales revenue from Tier 2, which is used to fund the District's Water Use Efficiency Programs, is estimated to be \$455,250.



# Revenue and Expenditures

## Allocation of Projected Revenue vs. Expenditures

	<b>PROJECTED</b>
	<b>2015/16</b>
<hr/>	
<b>OPERATING REVENUE</b>	\$ 9,156,560
LESS: OPERATION AND MAINTENANCE EXPENSE	9,824,770
OPERATING INCOME/(LOSS)	<u>(688,210)</u>
<b>CAPITAL REVENUE</b>	2,544,750
LESS: CAPITAL PROJECTS	5,035,910
INCREASE TO/(DECREASE FROM) RESERVES	<u>(2,491,160)</u>
<b>INCREASE TO/(DECREASE FROM) CASH BALANCE</b>	<u><u>\$ (3,159,370)</u></u>



**Analysis of 2015/16 Budget Revenue Projection**

	BUDGET 2014/15	BUDGET 2015/16
<b>OPERATING REVENUE</b>		
WATER SALES	\$ 8,748,500	\$ 8,439,560
FIRE SERVICE	10,740	10,860
FEES & PENALTIES	72,000	72,000
OVERHEAD CHARGE	8,000	12,000
EQUIPMENT CHARGE	12,000	18,000
ANTENNAE LEASE REVENUE	380,210	352,080
INTEREST REVENUE	636,570	228,060
MISCELLANEOUS	18,000	24,000
<b>TOTAL OPERATING REVENUE</b>	<b>9,886,020</b>	<b>9,156,560</b>
<b>TOTAL OPERATIONS &amp; MAINTENANCE EXPENSE</b>	<b>10,214,840</b>	<b>9,824,770</b>
<b>OPERATING GAIN/(LOSS)</b>	<b>\$ (328,820)</b>	<b>\$ (668,210)</b>
<b>CAPITAL REVENUE</b>		
RESERVE STORAGE	\$ 24,000	\$ 24,000
LOAN PROCEEDS	1,500,000	0
PROPERTY LEASE REVENUE	34,230	34,920
PROPERTY TAX REVENUE	2,191,530	2,485,830
<b>TOTAL CAPITAL REVENUE</b>	<b>3,749,760</b>	<b>2,544,750</b>
<b>CAPITAL EXPENDITURES</b>		
CAPITAL PROJECTS	7,395,550	5,035,910
<b>TOTAL CAPITAL EXPENDITURES</b>	<b>7,395,550</b>	<b>5,035,910</b>
<b>INCREASE TO/(DECREASE FROM) DESIGNATED RESERVES</b>	<b>\$ (3,645,790)</b>	<b>\$ (2,491,160)</b>

# Budget Overview

## 2015/16 Operating Budget

The operating budget includes the day-to-day operations of the District, which includes operations and maintenance, customer service, engineering, water use efficiency, human resources, finance, and administration. This fiscal year, labor and benefits, and water supply costs have decreased, accounting for much of the \$390,070 decrease in expenditures. This equates to 3.82 percent decrease from the previous year's operating budget.

### Water Purchases

Water supply costs from Metropolitan Water District of Southern California (MWD) and Municipal Water District of Orange County (MWDOC) decreases by \$522,420 for the 2015/16 budget. Due to the District's state mandated 24 percent drought emergency water use reduction, water purchases are estimated at 3,080 acre-feet for the fiscal year. The District's wholesale rates from MWD increase from \$923 to \$942 an acre-foot in January 2016. This \$19 increase comes on top of a \$33 per acre-foot increase last year and a \$43 per acre-foot increase in 2013/14 for imported water. In addition, MWDOC increased its meter connection charge from \$10.50 to \$10.85. MWDOC has changed its philosophy regarding collecting revenue from its member agencies by charging more per meter connection and phasing out the per acre-foot charge.

### Labor and Benefits

Labor and benefits are projected to increase \$114,230 due to merit increases, a 2.0 percent cost of living adjustment, and a 5.0 percent increase in insurance premiums, which will be partially offset by increasing the employee's portion of the cost of dependent health coverage to 22.5 percent. The District will contribute 01.5 percent of payroll to PERS plus \$150,000, versus last year's contribution of 13.7 percent. Employees will contribute 5.0 percent of salary to cover a portion of their contribution of PERS versus 3.0 percent last year. All other benefit coverages are either based upon no change or have been adjusted accordingly for inflation. Workers' Compensation Insurance rates are expected to remain the same as last year, but the carriers' experience modification rate will decrease from 74 to 67.

### Field and Maintenance

The field operations and maintenance component of the budget, including labor and benefits less water costs, decreased by \$359,830 or 10.7 percent. This area covers operation and maintenance of the District's facilities, which include supply lines, reservoirs, pump stations, distribution pipelines and appurtenances, vehicle maintenance, and buildings. No appreciable program changes are projected for this fiscal year. The change in this area is attributed to higher energy, fuel, copper and steel costs, labor and benefits, and shifting staff to other departments.

### General Manager's Office

Expenses relating to the Board, Commission, General Manager, Legal, Audit, and



professional memberships, such as the Association of California Water Agencies (ACWA) and the American Water Works Association (AWWA), are under the General Manager's Office section. An increase of \$49,640 or 7.7 percent is mainly due to legal costs, and labor and benefits.

### **Administration and Customer Service**

Expenses in Administration and Customer Service budget increased \$74,170 or 6.5 percent this year. Expenses included in Administration and Customer Service, Human Resources, Meter Reading, Records Retention and Destruction, Data Management, and Customer Billing. The increase is attributed to staffing changes.

### **Water Use Efficiency**

The water use efficiency program budget increased by \$157,580 or 47.7 percent due to additional conservation programs, community outreach, and messaging in response to water use restrictions mandated by the California State Water Resources Control Board. The District continues its proactive approach to public information, community relations, and water efficiency programs. It is important to note that the funds for the District's water use efficiency programs are generated through the District's Tier 2 Rate, with those customers using in excess of their water budget funding programs and projects that either conserve water or bring in additional supplemental water supplies to meet the higher demand.

### **Finance**

The finance section of the budget has decreased \$24,070 or 3.5 percent. Labor and benefits, and general office expense comprise the majority of the decreased costs, while insurance premiums reflect an increase.

### **Engineering**

The engineering section of the budget increased \$234,860 or 86.6 percent. The engineering department primarily deals with customer inquiries concerning engineering and water quality, designing and managing capital projects, and is a source of support for the Operations Department. The increase is due to new state requirements in water quality testing and shifting staff from other departments.

## **2015/16 Capital Budget**

This year, the District proposes to spend \$5,035,910 on capital improvements, an decrease of 32 percent over the 2014/15 Capital Budget. The District continues to pursue local water supply projects to reduce our 100 percent dependence on imported water (as noted below in the Water Supply Reliability Projects). In the past five years, imported water supply costs have increased dramatically. Due to the region's limited water reserves and worsening environmental and regulatory conditions in Northern California's Sacramento-San Joaquin Delta, the District continues to pursue other sources of water supply.

### **Joint Powers**

The District manages the Aufdenkamp Transmission Main and the Coast Supply Line, which are both jointly owned with other water agencies. This category covers projects specific to these facilities and costs are shared by each agency

according to its capacity rights in each pipeline. The total cost of all projects for this fiscal year is \$174,500 with the District's share of costs at \$134,110.

### **Reservoir and Pump Station Improvements**

These projects are too large to be considered maintenance items. Seven projects totaling \$405,000 are proposed for this fiscal year. They include the rehabilitation, upgrades, and replacements at various pump stations and reservoirs. The largest improvement is the completion of the Rim Rock Rehabilitation Project at \$225,000.

### **Transmission and Distribution**

Capital funds are designated annually for ongoing maintenance programs and miscellaneous projects that are large enough to be considered capital in nature. The majority of work in this category includes service lines, valves, fire hydrants, and meter replacement. The goal is replacement before these items fail. This year, \$670,000 will be spent in this category.

### **Pipeline Replacement**

The District continues on an aggressive program to replace all pipelines that have met their useful service life within the service area. The prioritization of the projects may change as warranted by conditions, length and type of pipe, and number of pipeline repairs in the area. This year, \$1,190,000 will be spent in this area with the completion of the three-year two-inch PVC Pipe System Improvement Project at \$500,000.

### **Master Plan Improvements**

These projects are compiled from the remaining critical projects from the 1996 Water Master Plan, in addition to recommendations from the development of the 2012 Master Plan Update intended to improve flow, water production, and water recovery in reservoirs. Final completion of the improvements to the Sweany Reservoir discharge line and the completion of the fire flow improvements on Cliff, Monterey, and Hawthorne Drive are scheduled projects.

### **Office Equipment and Technology**

This category includes network improvements, implementation of the second phase of GIS, miscellaneous office furnishings in need of replacement, and computer replacements. In this year's budget, \$2,700,000 is included for the installation of the Automated Metering Infrastructure.

### **Equipment and Vehicles**

The District replaces equipment and vehicles based on wear and tear, cost of maintenance, and mileage. Three vehicles are scheduled for replacement this year. In addition, one stand-by portable generator and pumper will be replaced, due to AQMD restrictions, for \$216,000. Total cost expenses are \$371,000.

### **Facility Improvements**

This category covers improvements to the remaining District facilities that are not covered under reservoirs, pump stations, or pipelines. This fiscal year, \$86,000 has been budgeted.

**Water Supply Projects**

The District continues to seek alternate sources of supply as water reliability becomes more critical and imported supplies become less reliable. The expenditures proposed in this category address securing additional supplies. These projects include continued work on the Dana Point Ocean Desalination Project, Santa Ana Basin Groundwater Project, and a Recycled Water Feasibility Study to evaluate the irrigation demands that could be served with recycled water throughout the District and the costs associated with building distribution systems to serve those demands. The expenses proposed for this category total \$480,000.

## 2014/15 & 2015/16 OPERATING AND MAINTENANCE BUDGET COMPARISON

SECTION/PAGE	DESCRIPTION	BUDGET 2014/15	BUDGET 2015/16
5-14	<b>OPERATIONS - SOURCE OF SUPPLY (51000)</b>		
	SOURCE OF SUPPLY - SYSTEM OPERATIONS (51100)	\$ -	\$ -
	SOURCE OF SUPPLY-CSL (51200)	64,940	51,180
	SOURCE OF SUPPLY-ATM (51300)	139,830	109,020
	SOURCE OF SUPPLY-WELLS (51400)	-	-
	PURCHASED WATER (51500)	3,781,820	3,259,400
	<b>TOTAL SOURCE OF SUPPLY</b>	<b>3,986,590</b>	<b>3,419,600</b>
5-15	<b>OPERATIONS - PUMPING (52000)</b>		
	PUMPING EXPENSE (52100)	391,390	339,600
	PUMPING POWER (52200)	190,000	190,000
	<b>TOTAL PUMPING</b>	<b>581,390</b>	<b>529,600</b>
5-16	<b>OPERATIONS - TRANSMISSION &amp; DISTRIBUTION (54000)</b>		
	RESERVOIR EXPENSE (54100)	561,500	532,020
	MAINLINE EXPENSE (54200)	1,328,310	1,121,200
	METER EXPENSE (54300)	104,610	93,900
	VALVE, VAULT, FIRE HYDRANT EXPENSE (54400)	308,790	264,180
	PAVING EXPENSE (54500)	50,040	50,400
	GENERAL PLANT - EQUIPMENT O&M (54600)	-	-
	GENERAL PLANT - BUILDING (54700)	224,420	252,500
	<b>TOTAL TRANSMISSION &amp; DISTRIBUTION</b>	<b>2,577,670</b>	<b>2,314,200</b>
5-17	<b>GENERAL MANAGERS OFFICE (55000)</b>		
	GENERAL MANAGERS EXPENSE (55100)	466,190	498,680
	COMMISSION/BOARD (55400)	114,050	120,000
	LEGAL (55500)	48,800	60,000
	AUDIT(55600)	15,850	15,850
	<b>TOTAL GENERAL MANAGERS OFFICE</b>	<b>644,890</b>	<b>694,530</b>
5-18	<b>ADMINISTRATION AND CUSTOMER SERVICE (56000 &amp; 57000)</b>		
	ADMINISTRATIVE EXPENSE (56100)	211,270	241,020
	DATA MANAGEMENT (56200)	62,040	74,040
	RECORDS RETENTION (56300)	720	720
	PUBLIC INFORMATION (56400)	50,040	50,040
	DISTRICT RECOGNITION (56800)	34,080	30,120
	HUMAN RESOURCES (56900)	160,000	289,620
	CUSTOMER SERVICE (57200)	618,660	525,420
	<b>TOTAL ADMINISTRATION AND CUSTOMER SERVICE</b>	<b>1,136,810</b>	<b>1,210,980</b>
5-19	<b>WATER USE EFFICIENCY (57500)</b>		
	OFFICE EXPENSE (57510)	204,820	185,940
	PROGRAMS/REBATES (57520)	88,020	160,020
	OUTREACH/EVENTS/SPONSORSHIPS (57530)	12,540	110,040
	DEVICES/MATERIALS (57540)	10,020	15,000
	SMARTSCAPE INFO/EXPO (57550)	15,000	16,980
	<b>TOTAL WATER USE EFFICIENCY</b>	<b>330,400</b>	<b>487,980</b>
5-20	<b>FINANCE (58000)</b>		
	FINANCE EXPENSE (58100)	483,450	442,100
	GENERAL OFFICE EXPENSE (58200)	72,920	78,200
	INSURANCE (58300)	129,540	141,540
	INSURANCE CLAIMS (58400)	-	-
	<b>TOTAL FINANCE</b>	<b>685,910</b>	<b>661,840</b>
5-21	<b>ENGINEERING (59000)</b>		
	ENGINEERING EXPENSE (59100)	47,000	275,220
	WATER QUALITY EXPENSE (59200)	224,180	230,820
	<b>TOTAL ENGINEERING</b>	<b>271,180</b>	<b>506,040</b>
	<b>TOTAL OPERATING BUDGET</b>	<b>\$ 10,214,840</b>	<b>\$ 9,824,770</b>

**2015/16 OPERATING AND MAINTENANCE BUDGET SUMMARY BY EXPENSE**

<b>SECTION/PAGE</b>	<b>DESCRIPTION</b>	<b>BUDGET 2015/16</b>
5-14	<b>OPERATIONS - SOURCE OF SUPPLY (51000)</b>	
	LABOR	\$ 79,320
	BENEFITS	48,660
	MATERIALS	2,877,560
	VEHICLE/EQUIPMENT	8,760
	OUTSIDE SERVICES	405,300
	<b>TOTAL SOURCE OF SUPPLY</b>	<b>3,419,600</b>
5-15	<b>OPERATIONS - PUMPING (52000)</b>	
	LABOR	154,440
	BENEFITS	97,860
	MATERIALS	14,400
	VEHICLE/EQUIPMENT	40,080
	OUTSIDE SERVICES	222,820
	<b>TOTAL PUMPING</b>	<b>529,600</b>
5-16	<b>OPERATIONS - TRANSMISSION &amp; DISTRIBUTION (54000)</b>	
	LABOR	998,620
	BENEFITS	602,760
	MATERIALS	110,160
	VEHICLE/EQUIPMENT	162,240
	OUTSIDE SERVICES	440,420
	<b>TOTAL TRANSMISSION &amp; DISTRIBUTION</b>	<b>2,314,200</b>
5-17	<b>GENERAL MANAGERS OFFICE (55000)</b>	
	LABOR	277,800
	BENEFITS	245,700
	MATERIALS	8,060
	VEHICLE/EQUIPMENT	-
	OUTSIDE SERVICES	162,970
	<b>TOTAL GENERAL MANAGERS OFFICE</b>	<b>694,530</b>
5-18	<b>ADMINISTRATION AND CUSTOMER SERVICE (56000 &amp; 57000)</b>	
	LABOR	635,160
	BENEFITS	289,680
	MATERIALS	34,260
	VEHICLE/EQUIPMENT	25,980
	OUTSIDE SERVICES	225,900
	<b>TOTAL ADMINISTRATION AND CUSTOMER SERVICE</b>	<b>1,210,980</b>
5-19	<b>WATER USE EFFICIENCY (57500)</b>	
	LABOR	119,040
	BENEFITS	61,740
	MATERIALS	48,060
	VEHICLE/EQUIPMENT	3,120
	OUTSIDE SERVICES	256,020
	<b>TOTAL WATER USE EFFICIENCY</b>	<b>487,980</b>
5-20	<b>FINANCE (58000)</b>	
	LABOR	255,840
	BENEFITS	145,620
	MATERIALS	30,520
	VEHICLE/EQUIPMENT	-
	OUTSIDE SERVICES	229,860
	<b>TOTAL FINANCE</b>	<b>661,840</b>
5-21	<b>ENGINEERING (59000)</b>	
	LABOR	249,820
	BENEFITS	136,020
	MATERIALS	3,360
	VEHICLE/EQUIPMENT	22,740
	OUTSIDE SERVICES	94,100
	<b>TOTAL ENGINEERING</b>	<b>506,040</b>
	<b>TOTAL OPERATING BUDGET</b>	<b>\$ 9,824,770</b>

**2015/16 CAPITAL BUDGET SUMMARY**

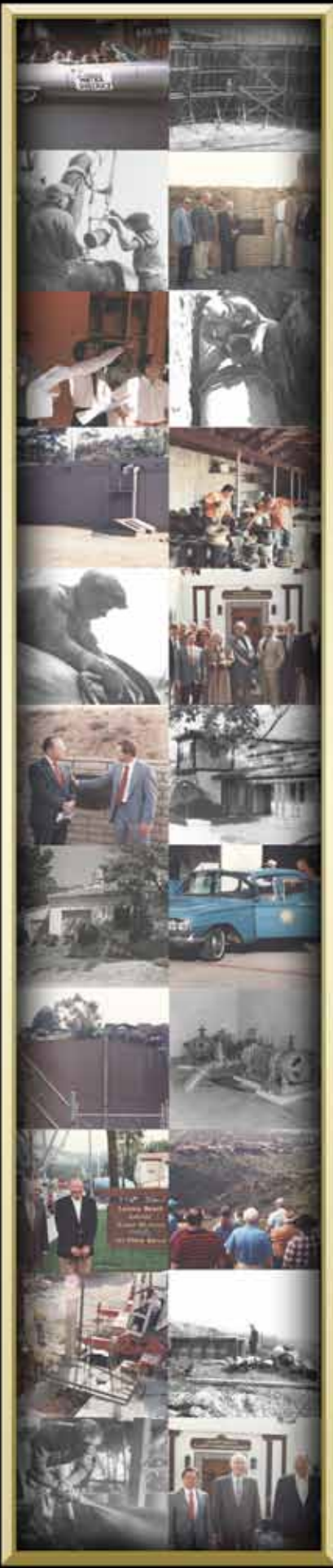
SECTION/PAGE	DESCRIPTION	BUDGET 2015/16
6-24	<b>JOINT POWERS PROJECTS</b>	
	COAST SUPPLY LINE	\$ 114,550
	AUFDENKAMP TRANSMISSION LINE	19,560
	<b>TOTAL JOINT POWERS PROJECTS</b>	<b>134,110</b>
6-25	<b>RESERVOIR AND PUMP STATION IMPROVEMENTS</b>	
	RIMROCK RESERVOIR REHABILITATION PROJECT	225,000
	TIAJUANA RESERVOIR #2 EXTERIOR PAINTING	25,000
	TEMPLE HILLS 600 PUMP STATION SOFT-START REPLACEMENT	25,000
	TEMPLE HILLS 800 PUMP STATION SOFT-START REPLACEMENT	25,000
	RIMROCK RESERVOIR SLOPE STABILIZATION	35,000
	MAGNETIC METERS AND VAULT INSTALLATION	50,000
	INSTALL ROOF ON EL MORRO STORAGE BINS	20,000
	<b>TOTAL RESERVOIR AND PUMP STATION IMPROVEMENTS</b>	<b>405,000</b>
6-26	<b>TRANSMISSION AND DISTRIBUTION</b>	
	METER REPLACEMENT	150,000
	SERVICE LINE REPLACEMENT	200,000
	VALVE REPLACEMENT	220,000
	FIRE HYDRANT REPLACEMENT	110,000
	CITY PROJECTS	40,000
	PROTECTION OF TRANSMISSION AND DISTRIBUTION FACILITIES	100,000
	<b>TOTAL TRANSMISSION AND DISTRIBUTION PROJECTS</b>	<b>820,000</b>
6-27	<b>PIPE REPLACEMENT PROJECTS</b>	
	2" PVC PIPE SYSTEM IMPROVEMENT	500,000
	PLATZ PIPELINE REPLACEMENT	440,000
	WYKOFF WAY PIPELINE REPLACEMENT	250,000
	<b>TOTAL CAST IRON REPLACEMENT PROJECTS</b>	<b>1,190,000</b>
6-28	<b>MASTER PLAN IMPROVEMENTS</b>	
	SWEANY RESERVOIR DISCHARGE LINE	900,000
	LAGUNA CANYON PRESSURE REDUCING STATION	30,000
	ALLVIEW TERRACE IMPROVEMENTS	75,000
	FIRE FLOW IMPROVEMENTS	400,000
	<b>TOTAL MASTER PLAN IMPROVEMENTS</b>	<b>1,405,000</b>
6-29	<b>OFFICE EQUIPMENT/TECHNOLOGY</b>	
	OFFICE FURNITURE	20,000
	COMPUTERS, PERIPHERALS, & NETWORK INFRASTRUCTURE	27,000
	CREDIT CARD PAYMENT TERMINAL FOR MAIN OFFICE	8,500
	PHONE SYSTEM SOFTWARE UPGRADE	6,300
	DISTRICT GIS SYSTEM	70,000
	DIGITAL COPIER/SCANNER	13,000
	<b>TOTAL OFFICE EQUIPMENT</b>	<b>144,800</b>
6-30	<b>EQUIPMENT AND VEHICLES</b>	
	HONDA 2000 PORTABLE GENERATORS	8,000
	FLUKE PORTABLE ELECTRICAL CURRENT METER	10,000
	4000 PSI PRESSURE WASHER	4,000
	HIGHLINE EQUIPMENT	5,000
	PORTABLE GASOLINE POWERED DEWATERING PUMPS	7,500
	DISTRICT VEHICLE NO. 5 REPLACEMENT (2003 FORD F-250)	32,500
	DISTRICT VEHICLE NO. 53 REPLACEMENT (2003 FORD RANGER)	32,500
	DISTRICT VEHICLE REPLACEMENT (2002 TOYOTA PRIUS)	25,500
	DUMP TRUCK ANNUAL LEASE PAYMENT	15,000
	MINI-EXCAVATOR ANNUAL LEASE PAYMENT	15,000
	REPLACE PORTABLE GENERATORS AND PUMPS	216,000
	<b>TOTAL EQUIPMENT AND VEHICLES</b>	<b>371,000</b>
6-32	<b>FACILITY IMPROVEMENTS</b>	
	DUTY APARTMENT HEATING AND AIR CONDITION REPLACEMENT	8,000
	ANNEX DOOR REPLACEMENT PROJECT	10,000
	WAREHOUSE/WORKSHOP STORAGE PROJECT	5,000
	OFFICE IMPROVEMENTS/MAINTENANCE PROJECT	63,000
	<b>TOTAL FACILITIES IMPROVEMENT</b>	<b>86,000</b>
6-33	<b>WATER SUPPLY PROJECTS</b>	
	OCEAN DESALINATION	150,000
	RECYCLED WATER FEASIBILITY STUDY	150,000
	SANTA ANA BASIN PROJECT	180,000
	<b>TOTAL SUPPLY SOURCE PROJECTS</b>	<b>480,000</b>
	<b>TOTAL CAPITAL BUDGET</b>	<b>\$ 5,035,910</b>



# Operating & Maintenance Budget Detail

## 2015/16 Operating Budget

The operating budget includes the day-to-day operations of the District, which includes operations and maintenance, customer service, engineering, water use efficiency, human resources, finance, and administration.



<b>Source of Supply</b>	<b>Labor</b>	<b>Benefits</b>	<b>Materials</b>	<b>Vehicles/ Equipment</b>	<b>Outside Services</b>	<b>Totals</b>
<b>SOURCE OF SUPPLY (51000)</b>						
<b>SYSTEM OPERATIONS (51100)</b>						
SYSTEM OPERATION - EXPENSE (51110)	\$ 82,960	\$ 47,940	\$ 720	\$ 10,020	\$ 24,000	\$ 165,640
SYSTEM OPERATION - REALLOCATION (51120)	(82,960)	(47,940)	(720)	(10,020)	(24,000)	(165,640)
<b>SOURCE OF SUPPLY - COAST SUPPLY LINE (51200)</b>						
REACH 1 (51210)	6,900	4,260	780	900	1,440	14,280
REACH 2 (51220)	6,840	4,200	420	900	1,200	13,560
REACH 3 (51230)	11,940	7,320	420	1,800	1,440	22,920
LBCWD METER (51250)			420			420
<b>SOURCE OF SUPPLY - AUFDENKAMP TRANS. LINE (51300)</b>						
REACH 1 (51310)	18,900	11,580	2,040	2,040	4,800	39,360
IRWD METER (51320)						
SMWD METER (51330)						
REACH 2 (51340)	18,900	11,580	1,980	1,980	4,440	38,880
REACH 3 (51350)	15,840	9,720	1,140	1,140	2,940	30,780
LBCWD METER - AGATE (51360)						
<b>PURCHASED WATER (51500)</b>						
WATER CHARGE (51510)			2,870,360			2,870,360
METROPOLITAN WATER DISTRICT CHARGES (51520)					295,260	295,260
MUNICIPAL WD OF ORANGE COUNTY CHARGES (51530)					93,780	93,780
<b>TOTAL SOURCE OF SUPPLY (51000)</b>	<b>\$ 79,320</b>	<b>\$ 48,660</b>	<b>\$ 2,877,560</b>	<b>\$ 8,760</b>	<b>\$ 405,000</b>	<b>\$ 3,419,600</b>

## Pumping

	Labor	Benefits	Materials	Vehicles/ Equipment	Outside Services	Totals
<b>PUMPING (52000)</b>						
<b>PUMPING EXPENSE( 52100)</b>						
GENERAL EXPENSE (52110)	\$ 154,440	\$ 97,860	\$ 14,400	\$ 40,080	\$ 24,000	\$ 330,780
SCADA (52120)					8,820	8,820
<b>POWER (52200)</b>					190,000	190,000
<b>TOTAL PUMPING (52000)</b>	<b>\$ 154,440</b>	<b>\$ 97,860</b>	<b>\$ 14,400</b>	<b>\$ 40,080</b>	<b>\$ 222,820</b>	<b>\$ 529,600</b>

## Transmission and Distribution

	Labor	Benefits	Materials	Vehicles/ Equipment	Outside Services	Totals
<b>TRANSMISSION AND DISTRIBUTION (54000)</b>						
<b>RESERVOIR EXPENSE (54100)</b>						
RESERVOIR EXPENSE (54110)	\$ 118,380	\$ 62,940	\$ 12,000	\$ 32,400	\$ 50,040	\$ 275,760
LANDSCAPING (54120)			600		70,020	70,620
TREE TRIMMING (54130)					55,800	55,800
CHLORINATION/INSPECTION (54140)					2,400	2,400
SCADA (54150)			180		4,020	4,200
EL MORRO #1 (54160)	6,000	3,180	4,500	1,200	4,800	19,680
WATER TREATMENT (54170)	49,980	26,580	12,000	15,000		103,560
<b>MAINLINE EXPENSE (54200)</b>						
MAINLINE EXPENSE (54210)	541,960	338,760	38,040	63,600	32,400	1,014,760
UNIFORMS EXPENSE (54220)			9,000		13,980	22,980
PROFESSIONAL DEVELOPMENT (54230)			1,200		8,040	9,240
COMMUNICATIONS (54240)					9,000	9,000
EMERGENCY RESPONSE HOUSING (54250)					55,200	55,200
TRUCKING/COUNTY FEES (54260)					10,020	10,020
OUTSIDE CONTRACTORS (54270)						
<b>METER EXPENSE (54300)</b>						
METER EXPENSE (54310)	46,800	28,440	8,040	8,040	1,560	92,880
OUTSIDE CONTRACTORS (54320)					1,020	1,020
<b>VALVE, VAULT, FIRE HYDRANT EXPENSE (54400)</b>						
VALVE, VAULT, FIRE HYDRANT EXPENSE (54410)	130,980	79,500	9,600	42,000	2,100	264,180
OUTSIDE CONTRACTORS (54420)						
<b>PAVING EXPENSE (54500)</b>						
					50,400	50,400
<b>EQUIPMENT EXPENSE (54600)</b>						
EQUIPMENT EXPENSE (54610)	100,800	61,140	15,000		4,500	181,440
FUEL (54620)			63,000		7,500	70,500
OUTSIDE CONTRACTORS (54630)					42,000	42,000
REALLOCATION (54650)	(100,800)	(61,140)	(78,000)		(54,000)	(293,940)
<b>BUILDING/WAREHOUSE EXPENSE (54700)</b>						
BUILDING EXPENSE (54710)	104,520	63,360	9,000		24,000	200,880
LANDSCAPING (54720)					5,000	5,000
UTILITIES (54730)					29,040	29,040
JANITORIAL (54740)			6,000		11,580	17,580
<b>TOTAL TRANSMISSION AND DISTRIBUTION (54000)</b>	<b>\$ 998,620</b>	<b>\$ 602,760</b>	<b>\$ 110,160</b>	<b>\$ 162,240</b>	<b>\$ 440,420</b>	<b>\$ 2,314,200</b>

**General Manager's Office**

	Labor	Benefits	Materials	Vehicles/ Equipment	Outside Services	Totals
<b>GENERAL MANAGER (55000)</b>						
<b>GENERAL MANAGER EXPENSE (55100)</b>						
OFFICE EXPENSE (55110)	\$ 258,600	\$ 156,600	\$ 840		\$ 1,200	\$ 417,240
PUBLICATIONS/MEMBERSHIPS (55120)			980		38,540	39,520
PROFESSIONAL DEVELOPMENT (55130)			2,940		6,000	8,940
GRANT WRITING SERVICES (55140)					3,000	3,000
URBAN WATER MANAGEMENT PLAN (55150)					25,000	25,000
CRISIS COMMUNICATION/MEDIA (55170)					4,980	4,980
<b>COMMISSION/BOARD (55400)</b>						
OFFICE EXPENSE (55410)	19,200	89,100	1,500		600	110,400
PROFESSIONAL DEVELOPMENT (55420)			1,800		7,800	9,600
<b>LEGAL (55500)</b>					60,000	60,000
<b>AUDIT (55600)</b>					15,850	15,850
<b>TOTAL GENERAL MANAGER'S OFFICE (55000)</b>	<b>\$ 277,800</b>	<b>\$ 245,700</b>	<b>\$ 8,060</b>		<b>\$ 162,970</b>	<b>\$ 694,530</b>

## Administration and Customer Service

	Labor	Benefits	Material	Vehicles/ Equipment	Outside Services	Totals
<b>ADMINISTRATION/CUSTOMER SERVICE (56000 &amp; 57000)</b>						
<b>ADMINISTRATIVE EXPENSE (56100)</b>						
OFFICE EXPENSE (56110)	\$ 161,760	\$ 71,340	\$ 1,020		\$ 540	\$ 234,660
PUBLICATIONS/MEMBERSHIPS (56120)			240			240
PROFESSIONAL DEVELOPMENT (56130)			120		6,000	6,120
<b>DATA MANAGEMENT (56200)</b>						
CONSULTING SERVICES (56210)			2,040		72,000	74,040
<b>RECORDS RETENTION (56300)</b>						
RECORDS MANAGEMENT (56320)					720	720
<b>PUBLIC INFORMATION (56400)</b>						
PUBLIC INFORMATION OUTREACH (56410)			10,200		20,100	30,300
COMMUNITY PARTICIPATION (56420)			2,520		5,040	7,560
SCHOOL EDUCATION (56430)			1,020		6,060	7,080
WATER-WISE GARDEN (56440)			4,080		1,020	5,100
<b>DISTRICT RECOGNITION (56800)</b>						
MISCELLANEOUS DISTRICT ACTIVITIES (56810)			1,020		11,040	12,060
EMPLOYEE RECOGNITION PROGRAMS (56820)			2,040		16,020	18,060
<b>HUMAN RESOURCES (56900)</b>						
OFFICE EXPENSE (56910)	169,620	103,140	2,520	\$ 3,120	540	278,940
PUBLICATIONS/MEMBERSHIPS (56920)			360		2,040	2,400
PROFESSIONAL DEVELOPMENT (56930)			240		2,220	2,460
SAFETY TRAINING (56940)			420		1,560	1,980
HEALTH AND WELLNESS PROGRAM (56950)			900		660	1,560
EMPLOYEE EDUCATION (56960)			240			240
EMPLOYEE RECRUITMENT (56970)			240		1,800	2,040
<b>CUSTOMER SERVICE OFFICE (57200)</b>						
OFFICE EXPENSE (57210)	303,780	115,200	3,960	22,860	2,880	448,680
PROFESSIONAL DEVELOPMENT (57230)			1,080		7,800	8,880
BILL OUTSOURCING (57240)					36,000	36,000
CONSULTING SERVICES (57250)					19,860	19,860
UNCOLLECTIBLES (57260)					12,000	12,000
<b>TOTAL ADMIN/CUSTOMER SERVICE (56000 &amp; 57000)</b>	<b>\$ 635,160</b>	<b>\$ 289,680</b>	<b>\$ 34,260</b>	<b>\$ 25,980</b>	<b>\$ 225,900</b>	<b>\$1,210,980</b>



## Water Use Efficiency

	Labor	Benefits	Materials	Vehicles/ Equipment	Outside Services	Totals
<b>WATER USE EFFICIENCY (57500)</b>						
<b>WATER USE EFFICIENCY (57500)</b>						
OFFICE EXPENSE (57510)	\$ 119,040	\$ 61,740	\$ 1,020	\$ 3,120	\$ 1,020	\$ 185,940
PROGRAMS/REBATES (57520)			10,020		150,000	160,020
OUTREACH/EVENTS/SPONSORSHIPS (57530)			10,020		100,020	110,040
DEVICES/MATERIALS (57540)			15,000			15,000
SMARTSCAPE INFO/EXPO (57550)			12,000		4,980	16,980
<b>TOTAL WATER USE EFFICIENCY (57500)</b>	<b>\$ 119,040</b>	<b>\$ 61,740</b>	<b>\$ 48,060</b>	<b>\$ 3,120</b>	<b>\$ 256,020</b>	<b>\$ 487,980</b>

**Finance**

	Labor	Benefits	Materials	Vehicles/ Equipment	Outside Services	Totals
<b>FINANCE (58000)</b>						
<b>FINANCE EXPENSE (58100)</b>						
OFFICE EXPENSE (58110)	\$ 255,840	\$ 145,620	\$ 900		\$ 1,440	\$ 403,800
PUBLICATIONS/MEMBERSHIPS (58120)					360	360
PROFESSIONAL DEVELOPMENT (58130)			420		3,120	3,540
PAYROLL SERVICES (58140)					10,400	10,400
BANKING SERVICES (58150)					12,000	12,000
SAFEKEEPING - INVESTMENTS (58160)						
CONSULTING SERVICES (58170)					12,000	12,000
<b>GENERAL OFFICE EXPENSE (58200)</b>						
OFFICE EXPENSE (58210)			25,000			25,000
POSTAGE (58220)			4,200			4,200
UTILITIES (58230)					36,000	36,000
MAINTENANCE - OFFICE EQUIPMENT (58240)					13,000	13,000
<b>INSURANCE (58300)</b>						
GENERAL LIABILITY (58310)					120,000	120,000
PROPERTY (58320)					18,000	18,000
STORAGE TANKS (58330)					2,400	2,400
MISCELLANEOUS (58340)					1,140	1,140
<b>INSURANCE CLAIMS (58400)</b>						
GENERAL LIABILITY (58410)						
PROPERTY (58420)						
<b>TOTAL FINANCE (58000)</b>	<b>\$ 255,840</b>	<b>\$ 145,620</b>	<b>\$ 30,520</b>		<b>\$ 229,860</b>	<b>\$ 661,840</b>

**Engineering****ENGINEERING (59000)****ENGINEERING EXPENSE (59100)**

	Labor	Benefits	Materials	Vehicles/ Equipment	Outside Services	Totals
OFFICE EXPENSE (59110)	\$ 144,420	\$ 78,120	\$ 1,020	\$ 10,920		\$ 234,480
PUBLICATIONS/MEMBERSHIPS (59120)			240		\$ 2,400	2,640
PROFESSIONAL DEVELOPMENT (59130)			600		7,500	8,100
CONSULTING SERVICES (59140)						
GEOGRAPHICAL INFORMATION SYSTEM - GIS (59150)					30,000	30,000

**WATER QUALITY EXPENSE (59200)**

ROUTINE SAMPLING (59210)	55,380	30,420	1,020	5,040	21,000	112,860
RESERVOIR SAMPLING (59220)	33,660	18,480	240	6,360	16,020	74,760
BACKFLOW (59230)	16,360	9,000	240	420	780	26,800
DHS FEES (59240)					12,000	12,000
ANNUAL WATER QUALITY REPORT (59250)					4,400	4,400

**TOTAL ENGINEERING (59000)**

<b>\$ 249,820</b>	<b>\$ 136,020</b>	<b>\$ 3,360</b>	<b>\$ 22,740</b>	<b>\$ 94,100</b>	<b>\$ 506,040</b>
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# Capital Budget Detail

**S**ince its incorporation, the District has provided a reliable source of high quality potable water and excellent service to the community at a reasonable cost. The Capital portion of the budget has always been an integral part of the District's overall program of system maintenance and improvement. The Capital Budget is funded by property taxes, office lease revenue, reserve storage fees, and interest income.

Categories within the Capital Budget include:

## Joint Powers Projects

The District manages two jointly owned water transmission lines that convey potable water into the District. These pipelines are the District's only source of supply.

## Reservoir and Pump Station Improvements

This category funds reservoir and pump station improvement projects.

## Transmission and Distribution

This category funds valve, fire hydrant, and meter replacement projects.

## Pipeline Replacement

This category funds the replacement of pipelines in the District's distribution system.

## Master Plan Improvements

This category funds improvements to the District's distribution system as outlined in the District's Master Plan.

## Office Equipment/Technology

This category funds office improvements.

## Equipment and Vehicles

The items listed in this category cover replacement of District equipment and vehicles.

## Facility Improvements

This category funds improvements to District headquarter facilities.

## Water Supply Projects

The District continues to seek alternate sources of water supplies as water reliability becomes more critical and imported supplies continue to be cut back.

**2015/16 CAPITAL BUDGET SUMMARY**

SECTION/PAGE	DESCRIPTION	BUDGET 2015/16
6-24	<b>JOINT POWERS PROJECTS</b>	
	COAST SUPPLY LINE	\$ 114,550
	AUFDENKAMP TRANSMISSION LINE	19,560
	<b>TOTAL JOINT POWERS PROJECTS</b>	<b>134,110</b>
6-25	<b>RESERVOIR AND PUMP STATION IMPROVEMENTS</b>	
	RIMROCK RESERVOIR REHABILITATION PROJECT	225,000
	TIAJUANA RESERVOIR #2 EXTERIOR PAINTING	25,000
	TEMPLE HILLS 600 PUMP STATION SOFT-START REPLACEMENT	25,000
	TEMPLE HILLS 800 PUMP STATION SOFT-START REPLACEMENT	25,000
	RIMROCK RESERVOIR SLOPE STABILIZATION	35,000
	MAGNETIC METERS AND VAULT INSTALLATION	50,000
	INSTALL ROOF ON EL MORRO STORAGE BINS	20,000
	<b>TOTAL RESERVOIR AND PUMP STATION IMPROVEMENTS</b>	<b>405,000</b>
6-26	<b>TRANSMISSION AND DISTRIBUTION</b>	
	METER REPLACEMENT	150,000
	SERVICE LINE REPLACEMENT	200,000
	VALVE REPLACEMENT	220,000
	FIRE HYDRANT REPLACEMENT	110,000
	CITY PROJECTS	40,000
	PROTECTION OF TRANSMISSION AND DISTRIBUTION FACILITIES	100,000
	<b>TOTAL TRANSMISSION AND DISTRIBUTION PROJECTS</b>	<b>820,000</b>
6-27	<b>PIPE REPLACEMENT PROJECTS</b>	
	2" PVC PIPE SYSTEM IMPROVEMENT	500,000
	PLATZ PIPELINE REPLACEMENT	440,000
	WYKOFF WAY PIPELINE REPLACEMENT	250,000
	<b>TOTAL CAST IRON REPLACEMENT PROJECTS</b>	<b>1,190,000</b>
6-28	<b>MASTER PLAN IMPROVEMENTS</b>	
	SWEANY RESERVOIR DISCHARGE LINE	900,000
	LAGUNA CANYON PRESSURE REDUCING STATION	30,000
	ALLVIEW TERRACE IMPROVEMENTS	75,000
	FIRE FLOW IMPROVEMENTS	400,000
	<b>TOTAL MASTER PLAN IMPROVEMENTS</b>	<b>1,405,000</b>
6-29	<b>OFFICE EQUIPMENT/TECHNOLOGY</b>	
	OFFICE FURNITURE	20,000
	COMPUTERS, PERIPHERALS, & NETWORK INFRASTRUCTURE	27,000
	CREDIT CARD PAYMENT TERMINAL FOR MAIN OFFICE	8,500
	PHONE SYSTEM SOFTWARE UPGRADE	6,300
	DISTRICT GIS SYSTEM	70,000
	DIGITAL COPIER/SCANNER	13,000
	<b>TOTAL OFFICE EQUIPMENT</b>	<b>144,800</b>
6-30	<b>EQUIPMENT AND VEHICLES</b>	
	HONDA 2000 PORTABLE GENERATORS	8,000
	FLUKE PORTABLE ELECTRICAL CURRENT METER	10,000
	4000 PSI PRESSURE WASHER	4,000
	HIGHLINE EQUIPMENT	5,000
	PORTABLE GASOLINE POWERED DEWATERING PUMPS	7,500
	DISTRICT VEHICLE NO. 5 REPLACEMENT (2003 FORD F-250)	32,500
	DISTRICT VEHICLE NO. 53 REPLACEMENT (2003 FORD RANGER)	32,500
	DISTRICT VEHICLE REPLACEMENT (2002 TOYOTA PRIUS)	25,500
	DUMP TRUCK ANNUAL LEASE PAYMENT	15,000
	MINI-EXCAVATOR ANNUAL LEASE PAYMENT	15,000
	REPLACE PORTABLE GENERATORS AND PUMPS	216,000
	<b>TOTAL EQUIPMENT AND VEHICLES</b>	<b>371,000</b>
6-32	<b>FACILITY IMPROVEMENTS</b>	
	DUTY APARTMENT HEATING AND AIR CONDITION REPLACEMENT	8,000
	ANNEX DOOR REPLACEMENT PROJECT	10,000
	WAREHOUSE/WORKSHOP STORAGE PROJECT	5,000
	OFFICE IMPROVEMENTS/MAINTENANCE PROJECT	63,000
	<b>TOTAL FACILITIES IMPROVEMENT</b>	<b>86,000</b>
6-33	<b>WATER SUPPLY PROJECTS</b>	
	OCEAN DESALINATION	150,000
	RECYCLED WATER FEASIBILITY STUDY	150,000
	SANTA ANA BASIN PROJECT	180,000
	<b>TOTAL SUPPLY SOURCE PROJECTS</b>	<b>480,000</b>
	<b>TOTAL CAPITAL BUDGET</b>	<b>\$ 5,035,910</b>

## Joint Powers Projects - Coast Supply and Aufdenkamp Transmission Line

The Coast Supply Line (CSL) delivers domestic water to the District from an MWD connection in Newport Beach. Originally built in 1926, it is jointly owned by the City of Newport Beach, Irvine Ranch Water District (IRWD) and the District. The pipeline ranges in diameter from 27-inches to 24-inches and runs parallel to Pacific Coast Highway from Fernleaf Street in Newport Beach to San Joaquin Street in Laguna Beach. Imported water from Metropolitan Water District of Southern California (MWD) supplies the CSL at its connection (CM-1) in Newport Beach. The El Morro Reservoirs, which are connected directly to the CSL, are used as flow equalizing structures. El Morro Reservoir No. 1 is jointly owned by the District (67 percent) and IRWD (33 percent). The Aufdenkamp Transmission Line (ATM) delivers domestic water to the District from an MWD connection in Irvine. The transmission line runs through Laguna Canyon and terminates at Agate Street where it splits and feeds South Coast Water District (SCWD) and the District. The pipeline ranges in diameter from 42-inches in Irvine to 30-inches at its terminus on Agate Street. Owners in the ATM include IRWD, SMWD, SCWD, and the District.

To address future improvements that were recommended in the Vulnerability Assessment required by EPA, it was recommended that the existing 12 year old SCADA system computers and "Wonder Ware" program be upgraded. The communication upgrades projects are completed which have greatly reduced system failures and after hour callouts. The Computers and the Program Upgrade Project which is the final phase of the overall SCADA upgrade was completed June 2014 and should provide a service life of 10 years.

The 2015/2016 Budget continues the cathodic protection program assessment on both the ATM and the CSL. The next phase is to continue evaluating and replacing as needed the sacrificial anode banks. The ATM Reach 1 sacrificial anode bank was completed in the 2013-2014 Budget Year. The District will also develop a 5-Year schedule to seal underground vaults on the ATM and Coast Supply Line.

	Total	LBCWD	NB	IRWD	SMWD	SCWD
<b>COAST SUPPLY LINE (CSL)</b>						
1.1 Station Rehabilitation CM-1A						
1.1.1 Reach 1	\$ 6,500	\$ 2,960	\$ 580	\$ 2,960	\$ 0	\$ 0
1.1.2 Reach 2	6,500	3,250	0	3,250	0	0
1.1.3 Reach 3	6,500	6,500	0	0	0	0
1.2 Anode Bank Replacement						
1.2.1 Reach 3	90,000	90,000	0	0	0	0
1.3 Cathodic Protection Survey						
1.3.1 Reach 1	3,500	1,590	320	1,590	0	0
1.3.2 Reach 2	3,500	1,750	0	1,750	0	0
1.3.3 Reach 3	3,500	3,500	0	0	0	0
1.4 El Morro Reservoir						
1.4.1 Replace Circulating Pump	6,000	5,000	0	1,000	0	0
<b>AUFDENKAMP TRANSMISSION LINE</b>						
1.5 Reach						
1.5.1 Seal Vault	7,000	2,100	0	900	2,550	1,450
1.5.2 Repair PC-1 Leaking Flange	7,500	2,260	0	940	2,740	1,560
1.6 Cathodic Protection Survey						
1.6.1 Reach 1	3,500	1,050	0	450	1,280	720
1.6.2 Reach 2	3,500	1,820	0	0	0	1,680
1.6.3 Reach 3	3,500	1,680	0	0	0	1,820
1.7 Replace Air/Vacs						
1.7.1 Reach 1	3,500	1,050	0	450	1,280	720
1.7.2 Reach 2	20,000	9,600	0	0	0	10,400
<b>TOTAL</b>	<b>\$ 174,500</b>	<b>\$ 134,110</b>	<b>\$ 900</b>	<b>\$ 13,290</b>	<b>\$ 7,850</b>	<b>\$ 18,350</b>



## Reservoir and Pump Station Improvements

The District currently has 22 reservoirs and 14 pump stations that serve areas within the District from sea level to over 1,000 feet in elevation. All of these reservoirs and pump stations must be maintained. Constant preventive maintenance is performed throughout the year that is part of the Operations and Maintenance Budget. Larger improvement projects occur on a regular basis and are included in this Capital Budget.

2.1	<b>Rimrock Reservoir Rehabilitation Project</b> – This project consists of installation of sacrificial anodes, seismic retrofits, cleaning inside the reservoir, and painting and coating of the interior and exterior of Rimrock Reservoir.	\$ 225,000
2.2	<b>Tiajuana Reservoir #2 Exterior Painting</b> - This project consists of painting exterior and top of Tiajuana Reservoir #2 and the Tiajuana Pump Station.	25,000
2.3	<b>Temple Hills 600 Pump Station Soft-Start Replacement</b> – This project includes the Soft-Start starters for the Temple Hills 600 Pump Station.	25,000
2.4	<b>Temple Hills 800 Pump Station Soft-Start Replacement</b> - This project includes the Soft-Start starters for the Temple Hills 800 Pump Station.	25,000
2.5	<b>Rimrock Reservoir Slope Stabilization</b> - This installation of landscaping and irrigation system for slope stabilization at Rimrock Reservoir.	35,000
2.6	<b>Magnetic Meters and Vault Installation</b> - This project installation of magnetic meters at Sycamore Hills 12" Turnout, Platz 10" Turnout, and (1) portable 4" to 16" ultrasonic test meter to verify stationary meter readings.	50,000
2.7	<b>Install Roof on El Morro Storage Bins</b> - This project consists of the installation of a roof to cover 2 of the El Morro storage bins to keep the stored materials out of the weather.	<u>20,000</u>
	<b>TOTAL</b>	<b><u><u>\$ 405,000</u></u></b>

## Transmission and Distribution

From the Aufdenkamp Transmission Main and Coast Supply Line, the District's water is fed into smaller transmission and distribution lines. Most of the work required within this category includes valves, fire hydrants and meters replacement. The programs of meter, fire hydrant, and valve replacement were developed to address those facilities identified as potential problems during the District's yearly inspection program. The goal is preventive replacement before these items fail. Capital funds are designated annually for ongoing replacement programs and miscellaneous projects that are large enough to be considered capital in nature.

3.1	<b>Meter Replacement</b> - This is an ongoing program to replace worn out water meters throughout the distribution system. Industry standards recommend that a meter may last approximately 17.5 years before it should be replaced. An in-house survey revealed that over 7 percent of the District's meters are over 20 years old and 45 percent of the meters are over 15 years old (600 meters).	\$ 150,000
3.2	<b>Service Line Replacement</b> - This is a program to replace service lines that have met their useable service life throughout the distribution system. Studies show that the average useable service life is approximately 30-35 years. The District has approximately 8500 services lines in the distribution system. The District should replace 240 services per year assuming that its usefull life is 35 years. The 2015-16 budget includes funding to replace 80 services.	200,000
3.3	<b>Valve Replacement</b> - The District has an ongoing program of inspecting and exercising valves throughout the distribution system. A list is generated of valves that no longer function properly. Funds are set aside annually to replace these valves. With approximately 1,800 valves in the system, the District is replacing 30 valves per year assuming that their useful life is 60 years.	220,000
3.4	<b>Fire Hydrant Replacement</b> - The District has an ongoing program of inspecting and exercising fire hydrants throughout the distribution system. A list is generated of hydrants that no longer function properly. Funds are set aside annually to replace these hydrants. Our experience with fire hydrants shows that their useful life is about 70 years. With regular maintenance, this number can be extended as long as replacement parts can be found. Using 70 years as the useful life for the 830 fire hydrants within the District, we should be replacing them at a rate of around 10 per year.	110,000
3.5	<b>City Projects</b> - The City of Laguna has ongoing projects that often require the District to modify or relocate its facilities. Smaller items, such as the raising of valve cans or meter boxes due to street paving make up the bulk of this item.	40,000
3.6	<b>Protection of Transmission and Distribution Facilities</b> - These projects protect District transmission and distribution facilities in cases of realignment, protect in place, relocation, and raising of valve and vault covers in situations of other utility or outside projects. It also covers protection of District facilities in preparation and recovery from disaster, unplanned, and unforeseen occurrences (i.e. fire, flood, earthquake protection, infrastructure failure).	<u>100,000</u>
	<b>TOTAL</b>	<u><u>\$ 820,000</u></u>

## Pipeline Replacement

The District continues on an aggressive program to replace all pipelines that have met their useful service life within its service area. The prioritization of the projects may change as warranted by conditions and is based several factors which include leak reports, location, fire flow conditions, length and type of pipe, and number of pipeline repairs in the area.

<p>4.1 <b>2" PVC Pipe System Improvement</b> – The District had approximately 4,000 feet of older 2-inch Polyvinyl Chloride (PVC) lines throughout the system. Due to age and material, these pipes have experienced a number of breaks. In FY 2012-2013, approximately 2,000 feet of these 2-inch PVC lines were replaced. An additional 2,000 feet of 2-inch PVC was designed for replacement and construction permits were submitted. Construction of the pipelines will take place in 2015-16.</p>	\$ 500,000
<p>4.2 <b>Platz Pipeline Replacement:</b> This project will replace approximately 1,000 feet of existing 10-inch ACP that connects the Platz Reservoir to Laguna Canyon Road. A portion of this pipeline is currently above grade and needed relocation due to the grading work in the canyon.            Design \$40,000 (FY 2015-16)            Construction \$400,000 (FY 2015-16)</p>	440,000
<p>4.3 <b>Wykoff Way Pipeline Replacement:</b> A 4-inch asbestos cement pipe (ACP) along Wykoff Way has demonstrated a history of breaks over the past few years including one earlier this year. The street currently has two ACP lines a 4-inch and a 12-inch. Approximately 600 feet of 12-inch line will be replaced with a new pipeline and 600 feet of 4-inch pipe will be abandoned. Design work was completed in FY 2014-15 and construction will be completed in FY 2015-16.</p>	<u>200,000</u>
<b>TOTAL</b>	<b><u><u>\$ 1,190,000</u></u></b>

## Master Plan Improvements

These projects are compiled from the 1996 Master Plan Update and recommendations discovered from the development of the 2012 Master Plan Update. The projects are intended to improve flow in pipelines, water production in pumping facilities, and volume recovery in water storage facilities.

<p>5.1 <b>Sweany Reservoir Discharge Line:</b> This project will replace 1,700 feet of 8-inch pipe from the Sweany Reservoir. The pipeline has experienced multiple breaks and leaks in 2013 and is currently out of service. The project will be constructed in FY 2015-16.</p>	\$ 900,000
<p>5.2 <b>Laguna Canyon Pressure Reducing Station:</b> In the Master Plan document, replacement of the 3,500 feet of 8-inch pipe in Laguna Canyon Road with 12-inch pipe was recommended to improve fire flow in the canyon area. In addition, a 6-inch pipe in Arroyo Drive was recommended to be increased in diameter to 12-inch also to increase fire flow in the canyon area. Upon further examination, a pressure reducing station along Laguna Canyon Road that would allow higher pressure water from the ATM pipeline to enter the local distribution system in the canyon in the event of a fire appears to be feasible and cost effective. This project will implement a new pressure reducing station rather than replace 4,700 feet of pipeline. The design effort will be underway in FY 2015-16 with construction to follow in FY 2016-17.</p>	30,000
<p>5.3 <b>Allview Terrace Improvements:</b> This project will address both the fire flow issues in the area as well as the low system pressures. It is anticipated that a small pump station will be needed along with increased pipeline diameters. The design effort will be underway in FY 2015-2016 with construction to follow in FY 2016-17.</p>	75,000
<p>5.4 <b>Fire Flow Improvements – Cliff Drive, Monterey Drive and Hawthorne Drive:</b> The District designed the replacement of approximately 1500-ft of existing 4-inch pipeline on Cliff, Monterey, and Hawthorne with new 8-inch PVC C900 pipe to improve fire flows to existing fire hydrants in the system as part of FY 2014-15 Budget. Construction on the project will occur during the 2015-16 fiscal year.</p>	<hr style="width: 100%;"/> 400,000
<b>TOTAL</b>	<hr style="width: 100%;"/> <b>\$ 1,405,000</b> <hr style="width: 100%;"/>

## Office Equipment And Technology

The items listed under this category cover necessary office system improvements as well as larger office needs.

6.1	<b>Office Furniture</b> - Purchase miscellaneous large office furnishings that are in need of replacement.	\$ 20,000
6.2	<b>Computers, Peripherals, Network Infrastructure</b> - Annual program of computer, peripheral, and network infrastructure replacement as the need occurs.	27,000
6.3	<b>Credit Card Payment Terminal for main office</b> – Purchase a credit card terminal for the District’s front counter to enable walk-in customers the ability to pay their water bill with a credit/debit/Reward’s card.	8,500
6.4	<b>Phone System Software Update</b> - Upgrade the District’s phone system software which is over 10 years old and no longer supported by the manufacturer.	6,300
6.5	<b>District GIS</b> – Continue to develop applications and programs that enhance and improve workflow within the office and out in the field through the District’s GIS infrastructure.	70,000
6.6	<b>Digital Copier/Scanner</b> - Purchase a copier/scanner to replace the District’s 10-year old Konica copier.	13,000
	<b>TOTAL</b>	<b>\$ 144,800</b>

## Equipment and Vehicles

The annual auditor's report states that replacement of vehicles should be considered between four and ten years. Presently, approximately half of the fleet is over 10 years old. Approximately two or three vehicles and some minor miscellaneous equipment are scheduled to be replaced each year based upon wear and tear, cost of maintenance, and mileage. The current fleet consists of 28 light-medium duty vehicles (pick-up trucks and administration vehicles) and 5 heavy duty vehicles (dump trucks and flat-beds). This does not include equipment such as backhoes, bobcats, tractors, portable generators, or portable pumps.

7.1	<b>(4) Honda 2000 Portable Generator-</b> Generators needed to replace 10 year old 1000 watt generators.	\$ 8,000
7.2	<b>(1) - Fluke Portable Electrical Current Meter-</b> Equipment to monitor incoming electrical current levels from Edison.	10,000
7.3	<b>(1) - 4000 PSI Pressure Washer</b> - Replaces existing 17 year old pressure washer used for cleaning equipment, vaults, facilities, and vehicles.	4,000
7.4	<b>(1) - Highline equipment</b> needed to provide water service to 10 homes during a shutdown for installation or repair	5,000
7.5	<b>(3)- Portable Gasoline-Powered Dewatering Pumps</b> - Replacement of existing worn out dewatering pumps used to dewater vaults and tanks for maintenance, repairs or installations.	7,500
7.6	<b>Replace Vehicle No. 5 2003 Ford F-250</b> used by Valve and Fire Hydrant Maintenance with 70,400 miles. This truck is 12 years old, outdated, maintenance intensive, transmission issues. This truck will be sold to the highest bidder at auction.	
	Vehicle cost	\$25,000
	Emergency Lighting	2,500
	Tax and License	3,000
		32,500
7.7	<b>Replace Vehicle No. 53 2003 Ford Ranger</b> used by Water Quality/Engineering with 80,000 miles. This truck is 12 years old, outdated, maintenance intensive, engine issues. This truck will be sold to the highest bidder at auction.	
	Vehicle cost	\$25,000
	Emergency Lighting	2,500
	Tax and License	3,000
		32,500
7.8	<b>Replace 2002 Toyota Ford Prius</b> used by Water Use Efficiency/Customer Service and Administration staff as a pool car to make customer service house calls and attend meetings. It is 13 years old and is starting to be maintenance intensive. This vehicle will be sold to the highest bidder at auction.	
	Vehicle cost	\$23,000
	Tax and License	2,500
		25,500
7.9	<b>Dump Truck Annual Lease Payment</b>	15,000
7.10	<b>Mini-Excavator Annual Lease Payment</b>	15,000

**Equipment and Vehicles (continued on next page)**

### Equipment and Vehicles (continued)

7.11 **Replace Portable Generators and Pumpers** to meet new AQMD emissions regulations by January 2017. The District has 3 portable generators and 4 portable pumpers that need to be replaced. It is proposed to replace one generator and one pumper per year to bring the District in compliance with AQMD regulations. To offset cost, the existing equipment will be sold at auction in a state where emissions regulations are not as stringent.

Generator	\$120,000	
Pumper	80,000	
Tax	16,000	<u>216,000</u>
	<b>TOTAL</b>	<b><u><u>\$ 371,000</u></u></b>

## Facility Improvements

This category covers improvements to the District's facilities that are not covered under reservoir, pump station, or pipeline facilities. Most of these improvements are located at the Third Street complex, at the El Morro Storage Facility or other off-site locations.

8.1	<b>District Duty Apartment Heating and Air Conditioning Replacement</b> - Replace furnace and air conditioning unit in Duty apartment.	\$ 8,000
8.2	<b>Annex Door Replacement Project</b> - Replace the doors on the annex with lightweight doors.	10,000
8.3	<b>Warehouse/Workshop Storage Project</b> - Install shelving and containers in the workshop and warehouse.	5,000
8.4	<b>Office Improvements/Maintenance</b> - Painting of office interior drywall areas, window frames, doors, and ceilings; floor tile stripping and resealing, replacement of lockers in locker room; replacement of all T-32 lighting with LED lighting; restaining of cabinetry.	<u>63,000</u>
	<b>TOTAL</b>	<u><u>\$ 86,000</u></u>



## Water Supply Projects

The District relies totally on imported water supply. As the reliability of the region's supply becomes more fragile, finding new sources that can augment that supply is a high priority. Several projects fall within this category. These projects will improve the District's source of supply, as well as its flexibility in the event of a major catastrophe.

9.1	<b>Ocean Desalination</b> - Preliminary studies have shown there is potential for an ocean desalination plant in Dana Point or Huntington Beach. The District has agreed to participate in further studies to determine the viability of the projects as an additional source of potable water.	\$ 150,000
9.2	<b>Recycled Water Feasibility Study</b> - This study will evaluate the irrigation demands that could be served with recycled water throughout the District and the costs associated with building distribution systems to serve those demands. This study will also develop options to produce and/or purchase recycled water from other retailers to meet these needs as well as determine costs associated with securing these supplies. These options will be evaluated to determine the most cost effective solutions and evaluate overall project feasibility.	150,000
9.3	<b>Santa Ana Basin Project</b> – Continue the District's mission to exercise its 2,025 acre-feet adjudicated water right in the Santa Ana Basin.	<u>180,000</u>
	<b>TOTAL</b>	<u><u>\$ 480,000</u></u>

# Resolutions



**RESOLUTION NO. 801****A RESOLUTION OF THE BOARD OF DIRECTORS OF THE LAGUNA BEACH COUNTY WATER DISTRICT OF ORANGE COUNTY, CALIFORNIA, ADOPTING THE LBCWD 2015/16 BUDGET**

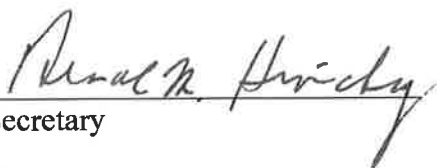
**NOW, THEREFORE, BE IT RESOLVED**, the Board of Directors of Laguna Beach County Water District, does hereby resolve and order as follows:

1. That the budget estimate for the General Fund and Capital Fund of the District as submitted for fiscal year 2015/16 is hereby approved.

**ADOPTED, SIGNED, AND APPROVED** this 18<sup>th</sup> day of June, 2015.

  
\_\_\_\_\_  
President

ATTEST:

  
\_\_\_\_\_  
Secretary

**CERTIFICATION**

I, Renae M. Hinchey, Secretary of the Laguna Beach County Water District, of Orange County, California, do hereby certify that the foregoing Resolution No. 801 was duly adopted at a regular meeting of the Board of Directors of said District, held on the 18<sup>th</sup> day of June, 2015, by the following vote of Members of the Board:

AYES: Directors: - Boyd, Whalen, Iseman, Zur Schmiede  
 NOES: Directors: - None  
 ABSENT: Directors: - Dicterow

And I further certify that Kelly H. Boyd, as President, and Renae M. Hinchey, as Secretary, signed and approved said Resolution on the 18<sup>th</sup> day of June, 2015.

  
 \_\_\_\_\_  
 Secretary, Laguna Beach County Water District

(District Seal)

STATE of CALIFORNIA)

) ss.

COUNTY OF ORANGE )

I, Renae M. Hinchey, Secretary of the Laguna Beach County Water District of Orange County, California, do hereby certify that the foregoing is a full, true and clear copy of Resolution No. 801 passed and adopted by the Board of Directors of said District at a regular meeting hereof held on June 18, 2015. In witness whereof, I have hereunto set by hand and affixed the official seal of said district this 18<sup>th</sup> day of June, 2015.

(District Seal)

  
 \_\_\_\_\_  
 Secretary, Laguna Beach County Water District

**RESOLUTION NO. 802**

**A RESOLUTION OF THE LAGUNA BEACH COUNTY WATER DISTRICT, OF ORANGE COUNTY, CALIFORNIA, ESTABLISHING A JOB CLASSIFICATION PLAN AND SALARY RANGES; AND REPEALING RESOLUTION NO. 795 AND ALL OTHER RESOLUTIONS AND MOTIONS INCONSISTENT HEREWITH TO THE EXTENT OF SUCH INCONSISTENCY.**

**NOW, THEREFORE BE IT RESOLVED**, The Board of Directors of the Laguna Beach County Water District, does hereby resolve and order as follows:

1. That pursuant to the authorization contained in Ordinance No. 91, adopted June 2, 1987, authorizing the Salary Schedule of Section 11 entitled "Basic Pay Plan" of Ordinance No. 65, adopted February 6, 1973, as amended, to be established from time to time by resolution of this District, the Board of Directors does hereby resolve and order as follows:

2. That effective July 3, 2015, the first payroll period in July, the "Salary Schedule" of the "Job Classification Plan" is hereby fixed and established as follows:

**MONTHLY SALARY SCHEDULE**

Grade #	Minimum	Control Point	Maximum
30	12,335	15,419	17,731
29	10,068	12,586	14,473
28	8,757	10,946	12,588
27	7,613	9,516	10,944
26	6,621	8,276	9,517
25	6,157	7,696	8,851
24	5,864	7,329	8,429
23	5,585	6,982	8,029
22	5,318	6,648	7,645
21	5,065	6,331	7,281
20	4,824	6,030	6,934
19	4,595	5,743	6,605
18	4,375	5,469	6,289
17	4,168	5,209	5,991
16	3,969	4,961	5,705
15	3,780	4,725	5,434

3. That effective July 3, 2015, the first payroll period in July, the following pay grade numbers shall replace those as set forth in Section 11 of Ordinance No. 65 of this District and are hereby allocated and assigned to the following employment positions of the Laguna Beach County Water District, as follows:

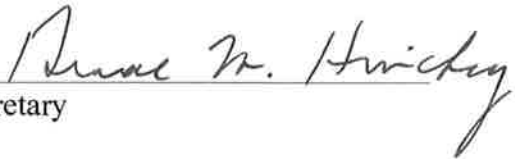
<b><u>EMPLOYMENT POSITION CLASSIFICATION</u></b>	<b><u>PAY GRADE NUMBER</u></b>
<b>GENERAL MANAGER’S OFFICE:</b>	
General Manager	Board Approval
Human Resources Manager	27
Office Administrator/Executive Assistant	24
Safety Officer	23
<b>ADMINISTRATION/CUSTOMER SERVICE:</b>	
Assistant General Manager	30
Customer Service Supervisor	27
Water Use Efficiency Administrator	23
Public Affairs Specialist	21
Customer Service Representative II	17
Customer Service Representative/Technician	15
Customer Service Representative I	15
Customer Service Technician	15
Meter Reader	15
<b>FINANCE:</b>	
Manager of Finance	28
Accountant	24
Senior Accounting Technician	19
<b>ENGINEERING:</b>	
Manager of Engineering	30
Water Quality Specialist	24
Construction Inspector	24
Engineering Technician	23
<b>OPERATIONS:</b>	
Manager of Operations	29
Facilities Maintenance Supervisor	27
Field Maintenance Supervisor	27
Water Resources and Transmission Foreman	25
Water Reservoir Foreman	25
Water Pump Station Foreman	25
Maintenance Worker III	23
Underground Facility Locator	21
Maintenance Worker II	19
Maintenance Worker I	16
Office Assistant	15

4. That Resolution No. 795 and all other resolutions and motions inconsistent herewith be and the same are hereby repealed to the extent of such inconsistency. This resolution shall be in effect on July 3, 2015, the first payroll period in July.

**ADOPTED, SIGNED AND APPROVED** this 18<sup>th</sup> day of June, 2015.

  
\_\_\_\_\_  
President

ATTEST:

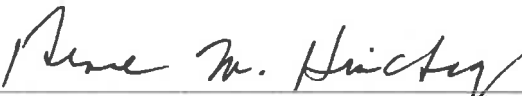
  
\_\_\_\_\_  
Secretary

**CERTIFICATION**

I, Renae M. Hinchey, Secretary of the LAGUNA BEACH COUNTY WATER DISTRICT, of Orange County, California, do hereby certify that the foregoing Resolution No. 802 was duly adopted at a regular meeting of the Board of Directors of said District, held on the 18<sup>th</sup> day of June, 2015, by the following vote of members of the Board:

AYES: Directors: - Boyd, Whalen, Iseman, Zur Schmiede  
 NOES: Directors: - None  
 ABSENT: Directors: - Dicterow

And I further certify that Kelly Boyd, as President, and Renae M. Hinchey, as Secretary, signed and approved said Resolution on the 18<sup>th</sup> day of June, 2015.

  
 \_\_\_\_\_  
 Secretary, Laguna Beach County Water District

(District Seal)

STATE of CALIFORNIA)

) ss.

COUNTY OF ORANGE )

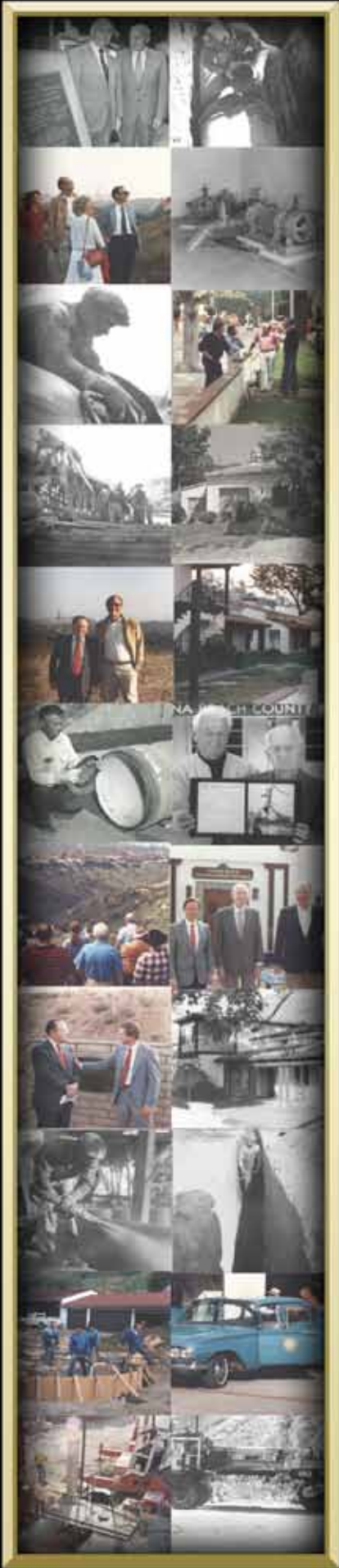
I, Renae M. Hinchey, Secretary of the Laguna Beach County Water District of Orange County, California, do hereby certify that the foregoing is a full, true and clear copy of Resolution No. 802 passed and adopted by the Board of Directors of said District at a regular meeting hereof held on June 18, 2015. In witness whereof, I have hereunto set by hand and affixed the official seal of said District this 18<sup>th</sup> day of June, 2015.

(District Seal)

  
 \_\_\_\_\_  
 Secretary of said District



# Appendices



## Tap Water – What a Great Value!

For 1/3 of a penny, a gallon of high quality water, fully tested, certified safe and healthy is delivered to your home, right at the tap!

### Value Comparisons

Item	Cost per Gallon	Quality Assurance Agency	Frequency of Quality Testing
 Premium Bottled Water	\$25.00	Federal Food & Drug Administration	Annual
 Premium Soda	\$8.50	Federal Food & Drug Administration	Annual
 Milk	\$3.50	Federal Food & Drug Administration	Annual
 Regular Unleaded Gasoline	\$4.25	United States Department of Transportation	Annual
 Generic Bottled Water	\$1.00	Federal Food & Drug Administration	Annual
 Tap Water	\$0.0033 (1/3 of a penny)	United States Environmental Protection Agency & California Department of Public Health Services & Your Local Water Provider	Daily

## Introduction

Water rates differ substantially among the many retail water suppliers in Orange County, as do rates between other utilities, such as sewer, gas and electric services. State law dictates that water agencies may only charge a rate that is necessary to cover their anticipated costs - but the rate that one supplier charges in Orange County may not be sufficient to cover the costs of another supplier, even though they are both water suppliers in the same County.

Key reasons for these differences are:

- ◆ **Source of Water** - does the water supplier have access to groundwater or is all the water imported from far away?
- ◆ **Topography** - is the service area hilly and does the water need to be pumped to higher elevations or is the topography flat? Do the regional pipelines deliver water nearby or must the water be conveyed long distances via additional local facilities?
- ◆ **Sources of revenue other than the rates charged for water** – does the supplier receive a portion of the property tax revenue, do they have other sources of income, what is the level of investment income?
- ◆ **Age of their capital facilities** - are they older or newer? What has been the level of maintenance and refurbishment for the facilities - have they received a higher or lower level of maintenance?

**Table 1** is a more complete list of the factors that affect water rates. For further information on the specific applicability of these factors to any one supplier, we refer you to the **Contact Information** for each supplier. Additional information can be found in the following article:

***"Why Retail Water Rates Vary in Orange County"***





### Factors Causing Differences in Water Rates Between Entities

1. **Source of Supply** – Imported Metropolitan water is typically more expensive than local groundwater (especially the groundwater in the Orange County Water District which is about half the cost of imported water). It should be noted that some local supplies can actually cost more than imported water.
2. **Distance to Metropolitan import pipelines or other major sources.** Some entities are very close to their main source of water, while others need pumping and conveyance systems to move the water into their service area.
3. **Service area elevation and amount of pumping required.** Entities with hilly terrain typically have more pumping facilities and more storage reservoirs and have a higher capital and operating expense.
4. **Configuration of service area.** Some water service areas are more compact and require fewer facilities to distribute the water whereas other service areas are more spread out or less densely populated, thus requiring higher costs per unit of population.
5. **Ability to interconnect with surrounding entities or adjacent facilities.** Entities ability to partner or interconnect with neighboring entities or facilities will have a lower level of costs compared to an entity that is independent and has to build all redundancies into their own system.
6. **Age of system.** Typically a system constructed long ago requires a higher level of investment or even replacement at a certain time. Also, facilities can be maintained at a higher or lower level, thus requiring a different level of investment. Newer facilities result in a higher capital cost, but lower costs to support a similar level of facilities.
7. **Service area mix of commercial, industrial, single family, etc.** Differing mixes of demands in the system require a difference in facility needs. Cost recovery needs will differ and result in varying impacts on water rates.
8. **Density and lot sizes.** These impact the cost of operating a system.
9. **Customer income.** Generally, as income rises, water use increases. This can allow the cost of facilities to be spread over a larger customer base of usage, but can also increase the cost of serving higher using customers.
10. **Funding of capital - pay as you go vs. debt financing.** The philosophical question to be addressed by the entity is one of equity of who is paying for the system, existing customers, new customers or a combination. Using financing increases the cost of facilities due to the cost of borrowing, but it also allows the costs to be spread out and repaid over time.
11. **Funding of repairs, replacements and depreciation.** How these needs are funded and the level of investments made impact the cost of service and thus the rates of an entity.
12. **Water only vs. water and sewer by same entity.** Spreading the overhead and management costs of multiple functions can create economies of scale and can result in symbiotic relationships.



**Table 1 continued...**

<b>Factors Causing Differences in Water Rates Between Entities</b>
13. Recycling supplies and water use efficiency (conservation) philosophy. The cost of service model for an entity covers the cost recovery aspects from various customer classes and functions. Having multiple functions can create economies of scale and symbiotic relationships. The issue of how to fund water conservation or water use efficiency functions (e.g., all users or just high water users) affects water rates.
14. Recovery of administrative services by municipalities. Cities typically require a cost recovery item for the benefits received from the functions provided by the city to the enterprise fund of the water department. The level of these costs varies from city to city and can impact costs and rates.
15. Level of grant funding or other funding incentives. Some entities do very well in seeking and obtaining outside funding to help reduce the costs of certain services to their customers.
16. Rate setting philosophy and methodology – The cost of service model dictates how rates and charges are established and collected from customers, including capital and operations and maintenance costs. Some agencies have budget based tiered rates where each customer is provided a water “budget” which allows for a reasonable amount of water for both indoor and outdoor water usage each month. Water use over the “budget” is charged at higher and higher rates to send an economic message to customers regarding efficient water use and to cover the costs of securing additional supplies or implementing additional conservation efforts in other parts of the service area.
17. Funding of growth through developers or water rates. Part of the rate setting process addresses existing customers vs. new customers and how rates and charges are set and collected. Access to developer investments to construct and improve water systems can result in lower rates.
18. Level of taxes to entity. Some entities receive tax funds whereas others do not. It is not equal from entity to entity and results in differences in rates.
19. Level of reserves (cash flow, replacement, rate stabilization, etc.). Entities differ on the level of reserves they want and need on hand and the levels of risks they are subject to and hence the costs of these items are put on the water rates.
20. Public input during ratemaking. Different entities have different philosophies, often with input from the local community.
21. Availability of redevelopment funding. Can impact the cost of service and revenues to an entity.
22. Master metering vs. individual meters to individual units. The costs of service and collection of revenue is affected under these policies.
23. Level of treatment required for local supplies and the distribution system. Chlorination, chloramination and fluoridation of supplies all add expenses as well as other types of treatment for specific situations.

**LAGUNA BEACH COUNTY WATER DISTRICT  
WATER RATE HISTORY  
1975 TO PRESENT**

RESOLUTION OR ORDINANCE #	EFFECTIVE DATE	SERVICE CHARGE BI-MONTHLY		WATER CHARGE (PER CCF)	%WATER CHARGE INCREASE	MWD WATER RATE (AF)	%MWD WATER RATE INCREASE
ORD. #69	07/01/75	3/4" - 5.00 1 1/2" - 11.25 3" - 25.00	1" - 7.50 2" - 15.00 4" - 40.00	0.28			
	07/01/77					75	
RES. # 301	07/01/78	3/4" - 7.50 1 1/2" - 16.88 3" - 37.50	1" - 11.25 2" - 22.50 4" - 60.00	0.52	86%	84	12%
	07/01/81		SAME	SAME		121	44%
RES. # 367	07/01/82		SAME	0.62	19%	192	59%
RES. # 377	07/01/83		SAME	0.71	15%	SAME	
RES. # 384 (AMENDS SEC 2-377)	07/01/83		SAME	0.83	17%	SAME	
RES. # 395	07/01/84		SAME	0.87	5%	SAME	
RES. # 406 (AMENDS SEC 2-395)	07/01/85		SAME	0.91	5%	224	17%
RES. # 424 (AMENDS SEC 2-406)	07/01/86		SAME	0.96	5%	230	3%
RES. # 499 (REPEALS 377,384,395)	07/01/91		SAME	1.11	16%	261	13%
RES. # 503 (REPEALS ORD.67,69, RES.301,367,395,424,499)	07/01/92	3/4" - 10.00 1 1/2" - 22.50 3" - 50.00	1" - 15.00 2" - 30.00 4" - 80.00	1.37	23%	322	23%
BOARD MOTION	01/06/93		SAME	1.65	20%*	SAME	
RES. # 523 (REPEALS RES. #503)	07/01/93		SAME	1.98	20%	385	20%
	07/01/94		SAME	1.98		412	7%
BOARD MOTION	02/01/95		SAME	2.12	7%	SAME	
	07/01/95		SAME	2.12		426	3%
BOARD MOTION	09/01/95	3/4" - 11.50 1 1/2" - 45.00 3" - 100.00	1" - 23.00 2" - 60.00 4" - 160.00	2.20	4%	SAME	
	01/01/97		SAME	2.20		431	1%
BOARD MOTION	03/01/99		SAME	2.31	5%	SAME	
BOARD MOTION	04/01/00		SAME	2.43	5%	SAME	
BOARD MOTION	07/01/01		SAME	2.50	3%	SAME	
BOARD MOTION	07/01/02	3/4" - 15.00 1 1/2" - 60.00 3" - 130.00	1" - 30.00 2" - 75.00 4" - 205.00	2.50			
BOARD MOTION	07/01/03		SAME	2.64	6%	435	1%
	01/01/04		SAME	2.64		451	3%
BOARD MOTION	07/01/04		SAME	2.74	4%	451	
	01/01/04		SAME	2.74		476	6%
RESOLUTION # 680	07/01/05		SAME	2.82	3%	473	-1%
	01/01/06		SAME	2.82		482	2%
RESOLUTION # 700	07/01/06	3/4" - 18.00 1 1/2" - 72.00 3" - 156.00	1" - 36.00 2" - 90.00 4" - 246.00	2.85	1%	479	-1%
	01/01/07		SAME	2.85		490	2%
RESOLUTION #710	07/01/07	3/4" - 20.00 1 1/2" - 80.00 3" - 173.00	1" - 40.00 2" - 100.00 4" - 273.00	2.94	3%	490	
	01/01/08		SAME	2.94		520	6%
	07/01/08		SAME	2.94		529	2%

**LAGUNA BEACH COUNTY WATER DISTRICT  
WATER RATE HISTORY  
1975 TO PRESENT**

RESOLUTION OR ORDINANCE #	EFFECTIVE DATE	SERVICE CHARGE BI-MONTHLY	WATER CHARGE (PER CCF)	%WATER CHARGE INCREASE	MWD WATER RATE (AF)	%MWD WATER RATE INCREASE	
RESOLUTION # 729	12/01/08	3/4" - 21.60 1 1/2"-107.98 3" - 345.52	1" - 53.99 2" - 172.76 4" - 539.88	30 - 3.02 over - 3.29 (single fam) 3.17 (all others)	3%	604	14%
RESOLUTION # 736	07/01/09	3/4" - 22.69 1 1/2"-113.46 3" - 363.06	1" - 56.73 2" - 181.53 4" - 567.28	30 - 3.23 over - 3.58 (single fam) 3.42 (all others)	7%	586 701	-3% 16%
RESOLUTION # 765	01/01/11	3/4" - 24.04 1 1/2"-120.18 3" - 360.55	1" - 60.09 2" - 192.29 4" - 600.92	Tier 1 - 3.56 (Budgeted) Tier 2 - 5.96 (Inefficient)	10%  66%	744	6%
RESOLUTION # 765	01/01/12	3/4" - 24.77 1 1/2"-123.84 3" - 371.53	1" - 61.92 2" - 198.15 4" - 619.21	Tier 1 - 3.66 (Budgeted) Tier 2 - 6.10 (Inefficient)	3%  2%	794	7%
RESOLUTION # 765	01/01/13	3/4" - 25.52 1 1/2"-127.59 3" - 382.78	1" - 63.80 2" - 204.15 4" - 637.97	Tier 1 - 3.77 (Budgeted) Tier 2 - 6.26 (Inefficient)	3%  3%	847	7%
RESOLUTION # 765	01/01/14	3/4" - 26.28 1 1/2"-131.42 3" - 394.27	1" - 65.71 2" - 210.28 4" - 657.11	Tier 1 - 3.89 (Budgeted) Tier 2 - 6.45 (Inefficient)	3%  3%	890	5%
RESOLUTION # 799	11/01/14	3/4" - 27.57 1 1/2"-137.85 3" - 413.55	1" - 68.92 2" - 220.56 4" - 689.25	Tier 1 - 4.25 (Budgeted) Tier 2 - 7.21 (Inefficient)	9%  12%	923	4%

\* Offsets Property Tax Revenue Loss

Revised 07/01/15



Table 2 RATE STRUCTURE FOR POTABLE (DRINKING) WATER FOR A SINGLE-FAMILY RESIDENCE

Water Supplier	Date Effective	Uniform Base \$/cft	Rate with Tiers per Month				Typical Residential Meter Size (inch)	Typ. Res. Meter Charge \$/month	Capital (g) Changes \$/month								
			cft up to \$/cft	cft up to \$/cft	cft up to \$/cft	cft up to \$/cft											
Anaheim, City of	Jul-2011	1,945	10	2,230	20	3,140	30	4,000	above 5,080	5/8 or 3/4	5.00	10% of sum of other charges					
Brea, City of	Jul-2012		10.7	0.793	28.1	1,468	105.5	2,439	above 3,770	5/8 or 1	8.63						
Buena Park, City of [1]	Jul-2011									5/8 or 3/4	15.18						
East Orange CWD Retail Zone	Jun-2012	2,400	(A)	2,070	(B)	2,470	(C)	4,790	(D)	3/4	17.65						
El Toro WD [10]	Jul-2012									3/4	11.42	4.95					
Emerald Bay Serv. Distr. [11]	Jul-2012									3/4	12.965						
Fountain Valley, City of	Nov-2011		15	2,470	above 3,988					5/8 or 3/4	6.51						
Fullerton, City of [1]	Jul-2012		10.9	1,788	26.7	1,990	above 2,189			5/8 or 3/4	6.41						
Garden Grove, City of [9] [12]	Jul-2012		18	2,690	125	2,770	250	2,660	above 2,940	5/8	6.125	0.705					
Golden State WC [8] [9]	Mar-2012		13	3,780	21	4,209	above 4,703			5/8	15.45	(50.20)					
Huntington Beach, City of	Oct-2012	1,7535								3/4	11.24						
Irvine Ranch WD Allocations= 40 ccf's [5][6][8]	Jul-2012		16	0.910	40	1,240	60	2,760	80	4,700	above 9,840						
Irvine Ranch WD Allocations= 25 ccf's [5][6][8]	Jul-2012		10	0.910	25	1,240	37.5	2,760	50	4,700	above 9,840						
La Habra, City of [3]	Jul-2012		170	2,540	above 2,750					5/8	11.33						
La Palma, City of [2]	Jul-2010		13	1,870	25	2,260	above 5,090			5/8 or 3/4	19.50						
Laguna Beach CWD [11]	Jan-2012									3/4	12.365						
Mesa WD	Jul-2011	2,850								5/8	9.00						
Moulton Niquel WD [13]	Jul-2011									3/4	10.36						
Newport Beach, City of	Jan-2012	2,730								3/4	15.11						
Orange, City of [8] [12]	Jan-2012		10	1,150	35	1,923	above 2,073			5/8 or 3/4	11.475						
San Clemente summer [7]	Aug-2012		9	2,360	14	3,860	above 8,300			1	14.40						
San Clemente winter [7]	Aug-2012		9	2,360	14	3,860	above 8,300			1	14.40						
San Juan Capistrano regular lot [4]	Jul-2012									5/8	19.09						
San Juan Capistrano 4(a)	Jul-2012									5/8	9.00						
Santa Ana, City of	Jul-2011		22	2,727	above 3,151					5/8	3.50						
Santa Margarita WD [6]	Jan-2012		6	2,050	20	2,170	35	2,640	70	3,140	above 3,990						
Seal Beach, City of	Jul-2011		13	2,020	above 2,670					5/8	17.13						
Serrano WD [2]	Jul-2010	3,010								5/8 or 3/4	32.31						
South Coast WD	Jul-2012		5	2,010	13	3,850	25	5,770	62	7,690	above 9,610						
Trabuco Canyon WD Warm	Jan-2012		9	2,150	18	2,200	27	2,250	36	2,740	45	3,270	54	3,970	63	4,610	above 5,460
Trabuco Canyon WD Cool	Jan-2012		6	2,150	12	2,200	18	2,250	24	2,740	30	3,270	36	3,970	42	4,610	above 5,460
Wustin, City of	Jul-2012		5	0,730	10	1,290	15	1,690	20	2,100	25	2,560	30	2,970	above 3,400		
Westminster, City of [8]	Jan-2012		28	2,300	above 3,560					5/8 or 3/4	3.66	3.26					
Yorba Linda WD	Jul-2012	2,570								1	12.60						

(1) Fullerton monthly tiers for single-family residences shown were converted from gallons to ccf; Fullerton has 50% lower tiers for multi-family residences.  
 Buena Park monthly tiers for single family shown were converted from gallons to ccf. All other customers price is \$1,466 per ccf  
 (2) La Palma commodity rate applies to each ccf above the first 5 ccf in two months i.e. above the first 2.5 ccf in one month.  
 (3) Serrano WD commodity rate applies to each ccf above the first 5 ccf.  
 (4) La Habra's upper tier rate is applicable only May-Sept.  
 (5) San Juan Capistrano's tier ccf's vary for each monthly billing cycle by user type, actual weather, days in the billing cycle, time of year, and lot size. A regular single family residential lot is ~ 7,000 sq. ft. and irrigated area < 3,635 sq. ft.  
 (6) Base tier is set at 6 units.  
 (7) Tier 2 is set at 3 additional units of indoor allocation (fixed) and 100% of the outdoor allocation, which is based on lot size and irrigated area, and varies monthly. The Base Tier and Tier 1 are added together to get the water budget for ea  
 (8) IRWD customer's water demand needs are met by the Low Volume and Base Rate tiers. Generally no more than 60% of the customers base exceeds these tiers. All water used between 100 % and 150% of the allocation will be charged @ \$9.84/ccf.  
 (9) IRWD provides water to three areas. This rate presented identify 88% of the water usage within the District.  
 (10) San Clemente "summer"= April-September; "winter" = October-March. Tiers shown are for SFR with lot size < 7,000 sq. ft. Average commodity rate is \$2.72 /ccf  
 (11) The following agencies have additional charges (various names) on top of this rates shown:  
 Irvine Ranch WD, Orange, and Santa Margarita WD have an Elevation Charge or a Power Surcharge for high elevation areas, not included here.  
 Golden State Water Co. 1.5% PUC surcharge  
 Westminster 4.0% general utility users' tax  
 (12) These agencies have a fixed charge that is in addition to a "meter charge"; various names are used and the following should be noted:  
 Buena Park has a Capital Improvements charge that is 10% of the sum of consumption and meter charges.  
 East Orange CWD has a "Capital Project Fee" \$17.50 per month  
 El Toro WD has a Capital Replacement & Reurbishment Charge \$4.68 per month for a 5/8" or 3/4" meter.  
 Garden Grove has a "Water Capital Improvement" charge \$1.41 per 2 months.  
 Golden State WC has a special condition credit of (\$0.20) per month for a 5/8" meter, different for other size meters. This will expire 3/1/2013.  
 Trabuco Canyon WD has a Water Reliability and Emergency Storage Charge \$16.50 per month for a 5/8" or 3/4" meter.  
 Wustin has implemented a "Capital Project Fee" of \$11 per 2 months.  
 Westminster has a Service Charge of \$6.52 per 2 months for all size of meter  
 (13) ETMWD Water Budget Based Tiered Conservation Rate Structure assigns budgets to individual customers based on metering efficient water needs.  
 (A) Tier I rates apply to Tier I budgets which are based on occupancy and number of billing days. Typical is 10 ccf  
 (B) Tier II rates are applied to Tier II budgets which are based on irrigate area and ET factors. (C) Tier III rates are applied to consumption over Tier I and Tier II and up to 130% of Tier I and Tier II.  
 (D) Tier IV rates apply to consumption over Tier III.  
 (14) LBCWD's and EBSD's Water Budget Based Tiered Rate Structure assigns water budgets to individual customers based on property specific characteristics.  
 (15) LBCWD's and EBSD's Water Budget Based Tiered Rate Structure assigns water budgets to individual customers based on property specific characteristics.  
 Revenue received from Tier 2 usage funds the District's Water Use Efficiency program and a portion of the development of supplemental water supplies.  
 (16) For City of Orange and Garden Grove, the tier ccf shows 11/1000 per person per day x days in billing cycle. Typical is 5 ccf/month.  
 (17) MNWD Tier 1 is indoor use, found as number of people in household x 65 gallons per person per day x 30 days in billing cycle. Typical is 5 ccf/month.  
 (18) MNWD Tier 2 is indoor use, found as irrigated acreage x evapotranspiration x plant factor. Tier 1 and Tier 2 are added to get the residential water budget  
 (19) MNWD Tier 3 applies to usage exceeding the water budget by 25%; Tier 4 applies to usage exceeding by 50%; Tier 5 applies to usage exceeding by over 50%.  
 prepared by Municipal Water District of Orange County



**Table 4 MONTHLY RESIDENTIAL WATER BILL**  
 For Different Volumes (ccf) of Potable Water Used in 1 Month by a Single-Family Residence, showing Fixed and Commodity Portions of the Bill \*

Assumed Monthly Usage ->	7,480 gallons 10 ccf		18,700 gallons 25 ccf		29,920 gallons 40 ccf		Average Residential Bill * in this Water Supplier					
	+ Commodity = Total		+ Commodity = Total		+ Commodity = Total		Average Usage [1] ccf	Fixed	Commodity = Total			
	Fixed	Commodity	Fixed	Commodity	Fixed	Commodity						
<b>Suppliers with Uniform Rates</b>												
Anaheim, City of	5.00	19.45 \$	24.45	48.63 \$	53.63	77.80 \$	82.80	20	5.00	38.90 \$	43.90	Anaheim, City of
East Orange CWD Retail Zone	35.15	24.00 \$	59.15	60.00 \$	131.15	96.00 \$	131.15	27.5	35.15	66.00 \$	101.15	East Orange CWD Retail Zone
Huntington Beach, City of	11.24	17.54 \$	28.78	43.84 \$	55.08	70.14 \$	81.38	12	11.24	21.04 \$	32.28	Huntington Beach, City of
Mesa WD	9.00	28.50 \$	37.50	71.25 \$	80.25	114.00 \$	123.00	16	9.00	45.60 \$	54.60	Mesa Consolidated WD
Newport Beach, City of	15.11	27.30 \$	42.41	68.25 \$	83.36	109.20 \$	124.31	13	15.11	35.49 \$	50.60	Newport Beach, City of
Serrano WD	32.31	15.05 \$	47.36	60.20 \$	92.51	105.35 \$	137.66	45	32.31	120.40 \$	152.71	Serrano WD
Yorba Linda WD	12.60	25.70 \$	38.30	64.25 \$	76.85	102.80 \$	115.40	25	12.60	64.25 \$	76.85	Yorba Linda WD
<b>Suppliers with Tiered Rates but not budget-based or seasonal</b>												
Brea, City of	8.68	22.30 \$	30.98	73.70 \$	82.38	144.60 \$	153.28	16	8.68	41.14 \$	49.82	Brea, City of
Buena Park, City of [2]	16.70	8.72 \$	25.42	32.40 \$	49.10	69.35 \$	86.05	13	16.70	13.05 \$	29.74	Buena Park, City of
Fountain Valley, City of	5.51	24.70 \$	30.21	69.85 \$	75.36	119.05 \$	124.56	15	5.51	37.05 \$	42.56	Fountain Valley, City of
Fullerton, City of	6.41	17.88 \$	24.29	47.73 \$	54.14	80.21 \$	86.62	18.7	6.41	35.19 \$	41.60	Fullerton, City of
Garden Grove, City of	6.83	26.90 \$	33.73	67.81 \$	74.64	109.36 \$	116.19	14.5	6.83	39.01 \$	45.84	Garden Grove, City of
Golden State WC [3]	15.48	38.36 \$	53.84	103.14 \$	118.62	174.74 \$	190.22	13	15.68	49.87 \$	65.55	Golden State WC
La Habra, City of	11.33	25.40 \$	36.73	63.50 \$	74.83	101.60 \$	112.93	18	11.33	45.72 \$	57.05	La Habra, City of
La Palma, City of	19.50	14.03 \$	33.53	46.76 \$	66.26	123.11 \$	142.61	18	19.50	30.94 \$	50.44	La Palma, City of
Orange, City of	11.475	11.5 \$	22.98	40.35 \$	51.82	69.94 \$	81.42	19	11.48	28.81 \$	40.28	Orange, City of
Santa Ana, City of	3.50	27.27 \$	30.77	69.45 \$	72.96	116.71 \$	120.21	17	3.50	46.36 \$	49.86	Santa Ana, City of
Santa Margarita WD	6.22	20.98 \$	27.20	55.88 \$	62.10	97.98 \$	104.20	16	6.22	34.00 \$	40.22	Santa Margarita WD
Seal Beach, City of	17.13	20.20 \$	37.33	58.30 \$	75.43	98.35 \$	115.48	11	17.13	22.22 \$	39.35	Seal Beach, City of
South Coast WD	23.72	29.30 \$	53.02	110.09 \$	133.81	225.44 \$	249.16	20	23.72	81.24 \$	104.96	South Coast WD
Tustin, City of	20.32	10.10 \$	30.42	41.85 \$	62.17	90.70 \$	111.02	20	20.32	29.06 \$	49.37	Tustin, City of
Westminster, City of [4]	7.20	23.92 \$	31.12	59.80 \$	67.00	111.40 \$	118.60	15	7.20	35.88 \$	43.08	Westminster, City of
<b>Suppliers with Seasonal Rates</b>												
San Clemente summer	14.40	25.10 \$	39.50	106.64 \$	124.04	234.14 \$	248.54	15	14.40	44.40 \$	58.80	San Clemente, City of
San Clemente winter	14.40	25.10 \$	39.50	131.84 \$	146.24	256.34 \$	270.74	15	14.40	48.84 \$	63.24	San Clemente, City of
Trabuco Canyon WD warm	24.75	21.55 \$	46.30	54.90 \$	79.65	97.14 \$	121.89	20	24.75	43.65 \$	68.40	Trabuco Canyon WD
Trabuco Canyon WD cool	24.75	21.70 \$	46.45	59.31 \$	84.06	117.32 \$	142.07	15	24.75	32.85 \$	57.60	Trabuco Canyon WD
<b>Suppliers with Budget-Based Allocation Rates</b>												
El Toro WD [5] [6]	16.08	20.70 \$	36.78	57.75 \$	73.83	94.80 \$	110.88	18	16.08	40.46 \$	56.54	El Toro WD
Emerald Bay Serv. Distr. [5]	12.39	34.90 \$	47.29	87.25 \$	98.64	139.60 \$	151.99	19	12.39	66.31 \$	78.70	Emerald Bay Serv. Distr.
Irvine Ranch WD [5]	9.30	11.08 \$	20.38	27.70 \$	37.00	44.32 \$	53.62	13	9.30	14.40 \$	23.70	Irvine Ranch WD
Laguna Beach WD [5]	12.39	36.60 \$	48.99	91.50 \$	103.89	146.40 \$	158.79	15	12.39	54.90 \$	67.29	Laguna Beach CWD
Moulton Niguel WD [5]	10.36	14.12 \$	24.48	37.22 \$	47.58	60.32 \$	70.68	16	10.36	23.36 \$	33.72	Moulton Niguel WD
San Juan Capistrano [5] regular lot [7]	19.09	35.02 \$	54.11	96.82 \$	115.91	158.02 \$	177.71	12	19.09	43.26 \$	62.35	San Juan Capistrano, City of



ccf = one hundred cubic feet. 1 ccf = 748 gallons.  
 \* Bill shown does not include pumping energy surcharge that may be applicable only to the higher zones of a system.  
 [1] Single-family water usage varies within Orange County due to local climate, lot size, and other factors. Average usage ccf number shown was provided by each water supplier.  
 [2] Buena Park has a 10.0% Capital Improvements charge that is included in all its numbers shown on this page  
 [3] Golden State WC has a 1.5% PUC surcharge included in all its numbers shown on this page  
 [4] Westminster has a 4.0% general utility users' tax included in numbers shown on this page  
 [5] All budget-based rate structures are not the same, but they do have similar characteristics which take into consideration both indoor and outdoor water use. Budgets (sometimes referred to as "Allocations") are typically based on the number of residents in the home, the type of home (detached home, attached home or apartment), landscape square footage and associated evapotranspiration (ET) data. For purposes of this table, it is assumed that the usage in each of the columns is within budget, and customers are not paying rates in the over-budget tiers.  
 [6] El Toro WD bills vary with occupancy, billing days, irrigable area and ET factor. Above calculations assumed 4 occupants, 31 days in the billing cycle, 7,000 sq. ft. and a 10-year historical ET factor for July.  
 [7] San Juan Capistrano's "small" single family residential lot is < 7,000 sq. ft. and irrigated area < 3,636 sq ft. Usage at each volume assumes customer is within their indoor/outdoor allocation.

See also notes on individual entity water rate structure on Table 2.

## RETAIL SUPPLIERS' WATER SOURCES, FY 2011-12

## Source of Water, %

Retail Water Supplier	Metropolitan Water [1]	Ground Water	Surface Water	Recycled/ Non-Potable Water [2]	Total	Comments
Anaheim, City of	46%	54%			100%	
Brea, City of	33%	67%			100%	
Buena Park, City of	35%	65%			100%	Including CUP pumping
East Orange CWD Retail Zone	38%	62%			100%	
El Toro WD	96%			4%	100%	
Emerald Bay Serv. Distr.	100%	0%			100%	
Fountain Valley, City of	47%	41%		12%	100%	
Fullerton, City of	37%	63%			100%	692.7 Acre Feet of "In-Lieu" including under MWD
Garden Grove, City of	32%	68%			100%	
Golden State WC	33.5%	66.5%		0%	100%	
Huntington Beach, City of	35%	65%			100%	
Irvine Ranch WD	21%	51%	4%	24%	100%	
La Habra, City of	21%	79%		0%	100%	
La Palma, City of	35%	65%			100%	
Laguna Beach CWD	100%	0%			100%	
Mesa WD	37%	58%		5%	100%	Colored water included with groundwater
Moulton Niguel WD	82%			18%	100%	
Newport Beach, City of	35%	65%		<1%	100%	
Orange, City of	50%	45%	5%	0%	100%	
San Clemente, City of	90%	2%		8%	100%	
San Juan Capistrano, City of	46%	49%		5%	100%	
Santa Ana, City of	32%	68%		<1%	100%	
Santa Margarita WD	83%	0%		17%	100%	
Seal Beach, City of	37%	63%			100%	
Serrano WD		59%	41%		100%	
South Coast WD	77%	13%		10%	100%	Includes the South Laguna service area.
Trabuco Canyon WD	60%	16%	2%	22%	100%	
Tustin, City of	37%	63%			100%	Metropolitan source includes the In-Lieu program otherwise it would be 22%
Westminster, City of	37%	63%			100%	
Yorba Linda WD	52%	48%			100%	

[1] Metropolitan Water District of Southern California (MET) imports water to Southern California from the Colorado River Basin and from Northern California. Long-Term "In-Lieu" water deliveries that indirectly replenish aquifers are counted here as MET water, and are not counted as Groundwater, unless indicated otherwise.

[2] Recycled municipal wastewater and/or Non-Potable surface or ground water.

C.U.P. In the Conjunctive Use Program, MET stores water in the groundwater basin. The storage may be accomplished by "In-Lieu" deliveries. n.r. No response was received for this item.

\* This agency did not respond with any data for this table. Previous year's information is shown.



**WATER SYSTEM FACILITIES**

POTABLE WATER SYSTEM											NON-POTABLE *			
Water Supplier	As of Date	Miles of 8" or Larger Pipe	Number of Active Wells	Capacity of Active Wells (GPM)	Number of Potable Water Tanks & Resvs.	Potable Water Storage Capacity (MG)	Untreated Water Stored for Potable Use (MG)	Surface Water Treatment Capacity (MGD)	Number of Booster Pump Stations	Capacity of Booster Pumps (GPM)	Miles of 8" or Larger Pipe	Number of Non-Pot. Water Tanks & Resvs.	Non-Pot. Water Storage Capacity (MG)	
Anaheim, City of	Mar-2011	752	18	56,209	14	39	920	15	9	78,360				
Brea, City of	Dec-2011	162	0	-	6	68	0	0	4	14,786				
Buena Park, City of	Jan-2013	120	8	16,800	1	20	0	0	1	4,000				
East Orange CWD Retail Zone	Dec-2012	13	2	1,500	2	1.8	-	-	2	3,700				
El Toro WD	Jan-2012	148	0	-	6	137	0	0	8	18,300	0	1	12	
Emerald Bay Serv. Distr.	Apr-2011	2	0	-	-	-	-	-	-	-	-	-	-	
Fountain Valley, City of	Jul-2012	155	6	20,800	2	10	0	0	2	13,150	8	0	0	
Fullerton, City of	Nov-2012	253	11	22,300	15	70	-	-	12	19,000				
Garden Grove, City of	Dec-2012	433	12	38,850	8	53	-	-	5	46,600				
Golden State WC	Mar-2012	224	28	21,175	15	13	-	-	13	20,930				
Huntington Beach, City of	Mar-2012	376	10	30,000	4	55	0	0	3	44,365				
Irvine Ranch WD	Dec-2012	1,248	26	52,000	38	151	0	0	45	93,120	248	15	9,300	
La Habra, City of	Dec-2012	63	2	2,300	4	17.8	-	-	6	14,639				
La Palma, City of	Jan-2012	34	2	3,400	2	4.5	-	-	2	5,975				
Laguna Beach CWD	Mar-2011	132	-	-	21	34	-	-	14	19,100				
Mesa WD	Jun-2012	197	8	16,800	2	28	0	0	2	29,000	0	0	0	
Moulton Niguel WD	Jan-2012	654	-	-	28	166	-	-	27	80,700	114	12	344.7	
Newport Beach, City of	Jan-2012	169	4	11,000	3	200	0	0	5	37,000	0	0	0	
Orange, City of	Jun-2012	261	15	25,022	16	41	0	0	16	50,095				
Orange County WD	Jun-2012										30	2	6.0	
San Clemente, City of	Dec-2012	155	2	1,200	14	23	-	-	16	26,000	6	0	0	
San Juan Capistrano, City of	Dec-2011	161	8	5,080	9	14.0	-	-	8	10,350	12	1	0.5	
Santa Ana, City of	Nov-2012	317	20	45,090	8	49	-	-	7	72,490				
Santa Margarita WD	Jan-2013	579	0	0	32	496	0	0	23	190,174	114	9	1,478	
Seal Beach, City of	Dec-2011	66	3	8,000	2	7	-	-	2	6,500				
Serrano WD	Dec-2012	43	3	4,050	2	9	3,333	4	2	5,800				
South Coast WD	Dec-2011	119	1	750	13	21.6	0	0	10	23,230	29	3	4.7	
Trabuco Canyon WD	Jan-2012	57	2	1,000	7	10	0	4	5	8,100	3	1	44	
Tustin, City of	Mar-2012	67	13	13,000	5	8	0	0	4	11,000	0	0	0	
Westminster, City of	Nov-2012	150	9	20,379	2	16	0	0	1	9,000				
Yorba Linda WD	Jun-2011	270	10	18,900	14	57	0	0	12	46,525				
<b>Totals</b>		<b>7,379</b>	<b>223</b>	<b>435,605</b>	<b>295</b>	<b>1,818</b>	<b>4,253</b>	<b>23</b>	<b>266</b>	<b>#######</b>	<b>564</b>	<b>44</b>	<b>11,190</b>	

\* "Non-Potable" system is for landscape irrigation and other non-potable uses. The water served includes recycled water and/or non-potable ground and surface water.

GPM gallons per minute  
 MG million gallons  
 MGD million gallons per day  
 n.r. No response was given to this item.



NUMBER OF WATER SERVICES, AND SALES VOLUME, BY SERVICE TYPE FY 2011-12

Number of Water Services (i.e. "Meters")		Sales Volume (Acre-Feet)														
Single Family	Multi-Family [1]	C-I Dedicated Irrigation Meters	C-I mixed use [2]	Agricultural	Recycled & Non-Pot. Dedicated Irrigation Meters [3]	Potable mixed use [4]	Totals	Retail Water Supplier	Single Family Residential	Multi-Family Residential [1]	C-I Dedicated Irrigation Meters	C-I mixed use [2]	Agricultural	Recycled & Non-Pot. Dedicated Irrigation Meters [3]	Potable mixed use [4]	Totals
49,879	4,256	8,658	0	0	0	0	62,793	Anaheim, City of	23,614	12,719	0	24,038	0	0	0	60,371
10,034	188	1,944	0	0	0	0	12,166	Brea, City of	4,204	1,039	0	4,695	0	0	0	9,938
16,396	677	428	1,420	0	0	0	18,921	Buena Park, City of	6,097	2,161	959	4,057	0	0	0	13,274
1,165	26	13	4	1	0	0	1,209	East Orange CWD Retail	821	14	24	7	0	0	0	866
5,677	2,613	0	1,746	0	1	0	10,037	El Toro WD	2,279	3,210	2,183	1,063	0	621	0	9,355
521	25	0	0	0	0	0	547	Emerald Bay Serv. Distr.	251	23	0	0	0	0	0	274
15,309	177	301	941	3	15	0	16,746	Fountain Valley, City of	5,550	722	693	2,113	8	1,361	0	10,447
26,321	1,912	385	2,939	4	0	0	31,561	Fullerton, City of	12,019	4,042	1,231	8,486	10	0	0	25,788
29,364	1,759	0	2,099	5	0	0	33,227	Garden Grove, City of	11,691	5,327	n.r.	5,300	10	0	0	22,328
n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	42,721	Golden State WC	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.	24,608
44,147	4,119	1,400	2,690	0	0	0	52,356	Huntington Beach, City of	13,958	6,284	2,823	4,720	0	0	0	27,785
83,902	2,728	1,828	9,191	72	4,744	51	102,516	Irvine Ranch WD	25,973	6,017	4,741	15,378	2,147	19,025	226	73,508
10,939	562	148	935	0	0	0	12,584	La Habra, City of	4,257	1,608	596	1,455	all other w/ C-H	0	0	7,917
4,136	61	18	162	0	0	0	4,377	La Palma, City of	1,358	264	81	304	0	0	0	2,007
6,355	1,074	101	575	0	0	0	8,105	Laguna Beach CWD	2,011	523	154	566	0	0	0	3,254
16,606	3,437	533	3,500	0	42	0	24,118	Mesa WD	5,322	1,653	4,542	0	0	968	0	17,859
33,663	15,410	2,869	0	0	2,655	0	54,597	Moulton Niguel WD	16,803	2,536	5,774	0	0	6,396	0	31,509
19,370	4,124	1,039	1,941	0	7	0	26,481	Newport Beach, City of	6,760	2,117	1,774	3,101	0	196	0	13,948
25,651	5,888	208	4,578	12	0	0	36,337	Orange, City of	13,633	4,587	482	8,863	171	0	0	27,736
12,059	3,558	768	891	2	0	0	17,278	San Clemente	4,359	1,417	1,923	786	0	781	0	9,266
7,009	3,042	480	521	14	77	0	11,143	San Juan Capistrano	3,711	1,178	1,122	820	147	648	0	7,626
35,612	3,639	649	4,916	0	21	0	44,816	Santa Ana, City of	13,751	10,565	1,409	10,025	0	131	0	35,881
35,653	12,755	1,480	2,194	0	1,209	5	53,296	Santa Margarita WD	15,210	2,571	4,637	1,212	0	5,115	162	28,907
4,335	576	88	351	0	0	0	5,350	Seal Beach, City of	3,475	all other combined with Single Fam. Res.	0	0	0	0	0	3,475
2,190	0	0	69	4	0	0	2,263	Serrano WD	2,757	0	22	5	0	0	0	2,784
9,614	1,567	371	678	0	172	0	12,402	South Coast WD	3,067	1,173	896	1,042	0	693	0	6,871
3,786	31	77	101	3	25	0	4,023	Trabuco Canyon WD	1,821	32	345	134	38	685	0	3,055
11,443	839	0	1,875	0	0	0	14,157	Tustin, City of	6,275	2,692	0	2,336	0	0	0	11,303
17,641	1,195	309	1,403	0	0	0	20,548	Westminster, City of	6,072	2,506	718	2,203	0	0	0	11,499
22,064	240	0	1,661	13	1	0	23,979	Yorba Linda WD	13,901	432	0	5,135	72	423	0	19,963
560,841	76,453	13,519	57,983	131	8,971	56	717,954	Totals	231,053	81,058	34,242	112,403	2,608	37,044	388	498,796

(some column totals are incomplete due to some non-responders)

n.r. No response was given to this item.

[1] Multi-Family sector includes apartments, master-metered condominiums, mobile homes, et al. that are not billed individually.

[2] Commercial Industrial & Institutional (C-I) sector includes businesses, schools, hydrants, fountains, etc. Mixed use meters can serve indoor and outdoor uses.

[3] Recycled wastewater and other Non-potable water used for irrigation. Note: exclude Agricultural usage of Recycled/Non-Potable Water.

[4] Recycled wastewater and other Non-potable water other-than-irrigation uses: toilet flushing, carpet dyeing, fountains, etc.

\* This agency did not respond with any data for this table. Previous year's information is shown.



**Table 10**  
**PER CAPITA WATER USAGE, FY 2011-12**

T	M&I [1]				M&I Excluding Recycled				Residential			
	A	M&I-T-A	P	M&I/P	R	M&I-R	P	(M&I-R)/P	Res	P	Res / P	Comments
Total Water Usage (AF)	Agricultural Water Usage (AF)	M&I Water Usage (AF)	Population Served [2]	M&I Per Capita Usage (gpcd)	Recycled Water Usage [3] (AF)	M&I Excluding Recycled Usage (AF)	Population Served [2]	M&I Excluding Recycled Per Capita Usage (gpcd)	Residential Water Sales [4] (AF)	Population Served [2]	Residential Per Capita Sales [4] (gpcd)	
Anaheim, City of	64,326	0	64,326	163	0	64,326	352,226	163	36,333	352,226	92	Includes unincorp. SW Anah.
Brea, City of	10,292	0	10,292	226	0	10,292	40,675	226	5,243	40,675	115	
Buena Park, City of	14,193	0	14,193	155	0	14,193	81,494	155	8,258	81,494	90	
East Orange CWD Retail Zone	1,011	0	1,011	280	0	1,011	3,215	280	835	3,215	232	
El Toro WD	9,627	0	9,627	48,183	178	621	9,006	48,183	5,488	48,183	102	
Emerald Bay Serv. Distr.	274	0	274	1,086	225	0	274	1,086	251	1,086	206	
Fountain Valley, City of	10,962	8	10,970	56,728	173	1,361	9,613	56,728	6,272	56,728	99	
Fullerton, City of	27,404	10	27,394	137,394	178	0	27,394	137,394	15,061	137,394	104	
Garden Grove, City of	25,060	10	25,050	174,763	128	0	25,050	174,763	17,018	174,763	87	
Golden State WC	26,982	0	26,982	167,139	144	0	26,982	167,139	n.p.	n.p.		did not provide Resid. Sales
Huntington Beach, City of	29,801	0	29,801	192,694	138	0	29,801	192,694	20,242	192,694	94	Includes Sunset Beach
Irvine Ranch WD	82,878	2,147	80,731	348,443	207	19,251	61,479	348,443	31,591	348,443	82	Includes Orange Park Acres
La Habra, City of	9,115	0	9,115	60,629	134	0	9,115	60,629	5,895	60,629	86	
La Palma, City of	2,162	0	2,162	14,612	132	0	2,162	14,612	1,622	14,612	99	
Laguna Beach CWD	3,282	0	3,282	18,924	155	0	3,282	18,924	2,534	18,924	119	
Mesa WD	18,779	0	18,779	105,164	159	968	17,811	105,164	10,696	105,164	91	n/d including Emerald Bay
Moulton Niguel WD	34,160	0	34,160	167,000	182	6,396	27,764	167,000	19,339	167,000	103	
Newport Beach, City of	16,159	0	16,159	65,089	222	198	15,963	65,089	8,877	65,089	122	
Orange, City of	29,603	171	29,432	137,002	192	0	29,432	137,002	18,220	137,002	119	
San Clemente, City of	9,823	0	9,823	50,477	174	781	9,043	50,477	5,777	50,477	102	
San Juan Capistrano, City of	7,797	147	7,650	37,607	181	648	7,002	37,607	4,889	37,607	116	
Santa Ana, City of	38,496	0	38,496	328,116	105	131	38,365	328,116	24,316	328,116	66	
Santa Margarita WD	32,204	0	32,204	151,411	190	5,277	26,927	151,411	17,781	151,411	105	did not provide Resid. Sales
Seal Beach, City of	3,565	0	3,565	23,405	136	0	3,565	23,405	n.p.	n.p.		
Serrano WD	3,066	5	3,061	6,370	429	0	3,061	6,370	2,757	6,370	386	
South Coast WD	7,058	0	7,058	34,462	183	693	6,365	34,462	4,240	34,462	110	Includes "Also Beach" area
Trabuco Canyon WD	3,299	38	3,261	12,519	232	685	2,576	12,519	1,853	12,519	132	
Tustin, City of	11,836	0	11,836	67,025	158	0	11,836	67,025	8,997	67,025	119	
Westminster, City of	12,011	0	12,011	92,345	116	0	12,011	92,345	8,578	92,345	83	Includes por. of "Midway City"
Yorba Linda WD	20,814	72	20,742	72,574	255	423	20,319	72,574	14,333	72,574	176	
<b>Total or Average</b>	<b>568,039</b>	<b>2,808</b>	<b>565,431</b>	<b>3,048,751</b>	<b>165</b>	<b>37,432</b>	<b>525,999</b>	<b>3,048,751</b>	<b>308,636</b>	<b>2,858,207</b>	<b>96</b>	incomplete

AF= acre-feet  
gpcd= gallons per capita per day  
n.p. data was not provided by the retail water entity

[1] Municipal, Commercial & Industrial, and Institutional (M&I) water is all water use except for Agricultural or Power Plant water use. Total water usage includes Recycled water usage and system losses. M&I Per Capita can be considered to be Urban water use per resident. M&I Per Capita lacks validity when comparing areas with dissimilar climate, land use, and other factors. Data per MWDCC database.  
[2] Population as of Jan. 1, 2012 based on 2010 Census counts, estimated by Center for Demographic research, CSU Fullerton. Draft unpublished data set. Population is for the actual service area of the water entity. Population for a City water department will be different than for the City if the water service area is different than the City area. Population number does not reflect commuting employees or tourist visitors, etc.  
[3] Recycled water system sales may include some non-potable surface water or groundwater in addition to recycled wastewater.  
[4] Sales of water to residences (includes detached and multiple-residential housing). Data is per the retail water suppliers (see Table 9). Sales numbers do not include system losses. Residential Per Capita lacks validity when comparing areas with dissimilar climate, lot size, seasonal rental, and other factors.

## Orange County Water Suppliers Water Rates & Financial Information

### Why Retail Water Rates Vary in Orange County

#### Summary

- ◆ Retail water rate setting is a complicated and complex process that varies somewhat from jurisdiction to jurisdiction. Each year as the Orange County Water Rates and Financial Information Survey is compiled, it is important to review the rate setting process and the factors involved. Retail water rate setting involves capturing the external costs of importing water from Metropolitan Water District of Southern California (MET) or producing the water from local sources, the internal costs of distribution and service and establishing the financing or funding sources for these costs.
- ◆ There are understandable reasons, both physical and philosophical, that cause retail rates to vary from supplier to supplier. These will be discussed below.
- ◆ Providing a reliable and high quality water supply system for existing and future users is a capital-intensive process. Water rates are significantly affected by the level of capital funding required, the financing mechanisms and the other sources of revenue available to a supplier. These issues will also be discussed.

#### Detailed Discussion

The following sections pertain to retail water rate setting:

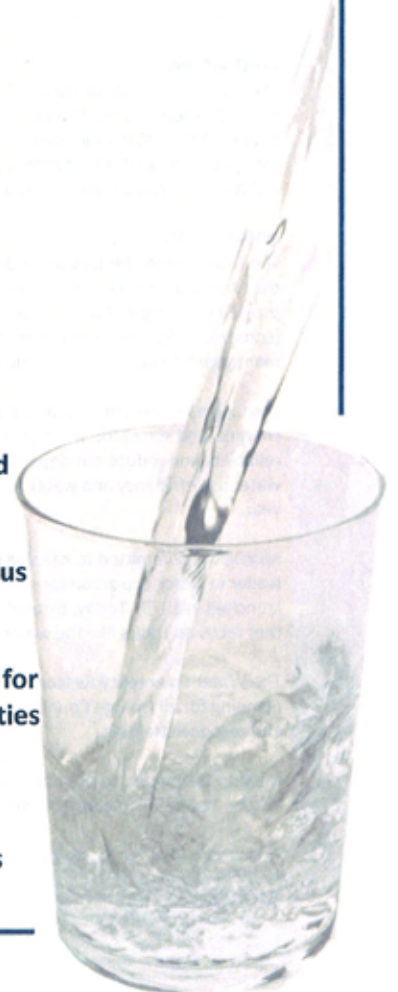
- ◆ Sources and Uses of Funds Available to a Water Utility
- ◆ Geographical Factors Affecting Water Rates
- ◆ Rate Design - Identifying Costs and Funding Them
- ◆ Purpose and Function of "Reserve Funds"

#### Sources and Uses of Funds Available to a Water Utility

The sources of funds available to a water utility for any use (not restricted in the type of use) include:

Retail water sales, fixed service charges on monthly or bimonthly basis plus variable charges based on water use, wholesale water sales for those suppliers that provide water to other suppliers, fees charged for services rendered (such as engineering and plan check fees), delinquent penalties for non-payment, investment earnings on funds set aside, rents from properties and tax revenues from the general 1% property tax levy (not all suppliers receive these funds).

Sources of funds that are restricted for use only for capital improvements include:





Voter authorized taxes and assessments, developer and customer contributions such as connection charges, development impact fees and contributed facilities, standby charges, proceeds from long-term financings, redevelopment funds, grants in aid of construction and investment earnings. If these sources of funds are not used or only partially cover the capital improvements necessary, water sales revenue must be structured to carry a heavier burden.

The uses of funds for a water utility include (1) the external costs of getting the supply to the supplier, water costs, pumping, storage and water treatment; (2) the internal costs of transmission, distribution and storage to serve the consumers, customer service (billing, meter reading, etc.) and general and administrative expenses (including insurance, office and office maintenance costs and office staff); (3) the funding requirements for debt service and capital improvements (new construction, replacements and upgrades and rehabilitation).

It is likely that the two most predominant geographical factors affecting retail water rates from area to area are (1) whether an area receives local groundwater from the lower Santa Ana River groundwater basin managed by Orange County Water District (OCWD), and (2) how much pumping is required to provide water throughout a supplier's service area.

Portions of the county overlie the OCWD groundwater basin area. Water supplies produced from the basin area cost around \$420 per AF (includes a replenishment assessment paid to OCWD for basin operations and to purchase imported replenishment water to balance the basin needs, energy and other operational costs for well production and an estimate of annual amortized costs for land and facilities). This cost is considerably less than the cost of receiving imported water from MET at around \$850 per AF. These costs just discussed, \$420 per AF for groundwater and \$850 for imported water, are essentially the production costs and do not include the costs of distribution, storage, treatment or pumping (except to pump the groundwater to system pressure). Translating these basic source costs down to the consumer and given the assumption that the groundwater basin areas can produce 65% of their supplies from the groundwater basin, the average source costs for the two areas would be:

- ◆ Non-Basin Area: 100% MET Import = \$850/AF or \$1.95/ccf
- ◆ Basin Area: 65% Groundwater and 35% Import = \$570/AF or \$1.31/ccf
- ◆ This factor is one of the major factors affecting rates to the consumer.

The next geographical factor affecting retail rates is the proximity to the MET feeders. MET feeders are MET facilities and paid for by water rates paid when purchasing imported water; these costs are already in the \$850 per AF cost of water paid to MET. The local supplier feeders have had to be constructed, operated, maintained and repaired with local supplier funding in addition to the water rates paid to MET. Once again, the suppliers overlying the groundwater basin are generally those suppliers which lie in close proximity to the MET feeders as they crisscross the northern portion of the county, and hence, these suppliers do not incur additional costs for facilities to distribute the MET supplies. Some





of the suppliers had to build transmission pipelines 20 to 30 miles to get the water into their service area from where the MET lines stop. Considerable costs are incurred for these extensions.

Another significant geographical factor is that of system elevation and the pumping necessary to lift the water to the service elevation of the homes and businesses. For example, Trabuco Canyon WD must pump virtually 100% of its import supplies to serve its consumers in the 1100 foot to 1400 foot service elevations of the foothills of the Santa Ana Mountains. The cost for pumping to the higher elevations must be factored into the retail rate. Some suppliers charge a similar rate throughout their service area while other suppliers charge more to residents living at a higher elevation. For example, the first block of water in the IRWD service area costs \$0.91 per ccf, however, a pumping surcharge of \$0.42 per ccf is imposed for the pumping required to get the water to the higher elevation of the Portola Hills service area of IRWD, thus raising the rate on the first block of water sold in Portola Hills, Zone 9 to \$1.33 per ccf.

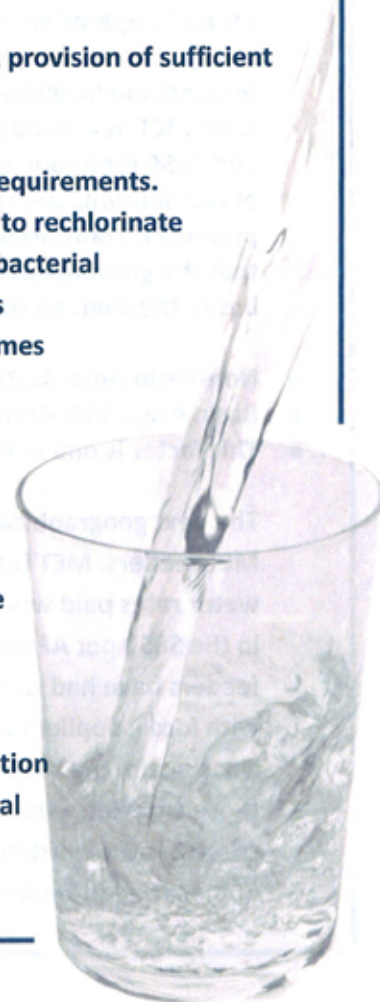
In addition, those areas with hilly terrain include multiple service elevations and the associated facilities, capital costs and O&M costs for additional pump stations, reservoirs and pressure reducing stations. Both San Juan Capistrano and Laguna Beach are examples of this type of terrain that ultimately leads to higher consumer costs.

Also, in communities surrounded by vast areas of open-space vegetation, provision of sufficient storage for firefighting is an added cost.

The last geographical factor influencing water rates is that of treatment requirements. For example, the areas furthest away from the MET sources are required to rechlorinate the supplies as they are conveyed to the service areas to protect against bacterial growth. Also, some areas of the groundwater basin contain contaminants or constituents such as high salts or color that must be removed - sometimes a very expensive process that can drive the costs of local water to that of MET water or beyond.

### **Rate Design - Identifying Costs and Funding Them**

Rate Design involves figuring out the revenue needs and how to structure and establish the rates within a service area to generate the required revenue. The costs of a water system vary for geographical reasons, but they also vary due to the age of the system, the level of development, density, due to the types of businesses in the service area, the cost allocation methodology to the various customer groups, and due to the philosophical factors of a supplier such as providing lifeline service at minimal costs.





Times have changed since the passage of Proposition 13 in 1978 which lowered tax revenue and eliminated the use of general obligation bonds as a financing vehicle for capital improvements, unless voter approval is secured. Decisions must be made regarding how to fund new growth - whether through bonds other than general obligation bonds, a connection or meter fee, a fixed charge collected through an assessment district or directly with revenue generated through water sales. All of these options will affect what the consumer sees when he pays his monthly or bimonthly water bill.

There are many theories for the allocation of both fixed and variable costs within a retail water service area and how to fund them through the water rates. Some propose that all fixed costs be funded via a fixed revenue source such as the fixed monthly or bimonthly service charge to consumers and that the commodity rate be structured to cover the variable costs of water such as the cost of the source water itself, treatment costs and pumping costs. Others subscribe to different theories. The theory adopted by the local jurisdiction should reflect the philosophy of the constituents.

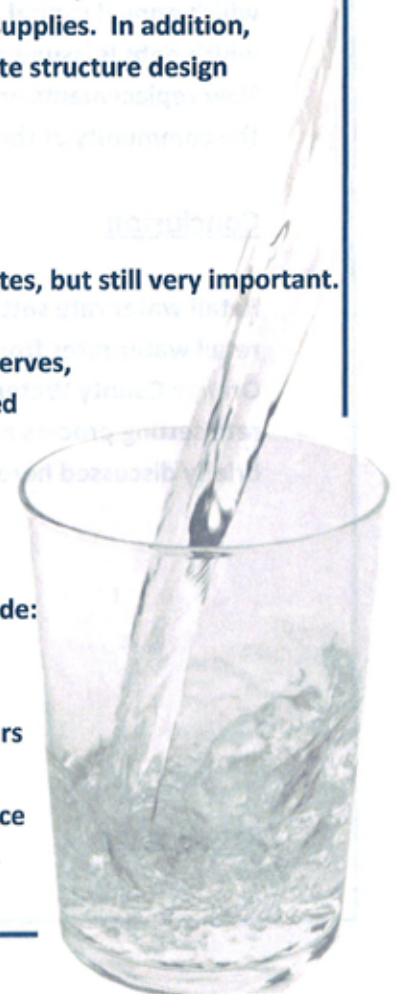
Lastly, the level of conservation and recycling in a community also affects the retail water rates. These efforts typically require capital expenditures and may actually result in somewhat higher costs in the short run but will save costs in the long run as the availability of these sources (or reduced demand) offsets the need for higher cost imported supplies. In addition, the lot size and home size of the community served will also affect the rate structure design and the actual rates charged.

### Purpose and Function of Reserve Funds

The level of reserve funds is indirectly related to the process of setting rates, but still very important. Reserve funds are misunderstood by some and construed to be "bad", yet reserve funds have a necessary and usually specific purpose. True reserves, similar to our own personal savings accounts that are used for unexpected purposes or that have been set aside for specific planned uses, can be distinguished from "encumbered" funds that are necessary for specific financial or legal purposes.

Reserve funds include many types of funds with specific uses; these include:

(1) Working Capital Funds to meet cash flow purposes, (2) Construction Funds from bond proceeds that generally must be spent within three years of issuance, (3) Rate Stabilization Funds to moderate short term rate fluctuations, (4) Debt Service Funds to collect funds and make debt service payments when due, (5) Conservation Revenue Funds which all suppliers



LAGUNA BEACH COUNTY WATER DISTRICT COLA HISTORY		
MARCH OF:	CPI	LBCWD COLA
1987		4.00%
1988		3.00%
1989		4.70%
1990		5.50%
1991		3.10%
1992		3.86%
1993		1.50%
1994		1.80%
1995		1.40%
1996	1.70%	1.70%
1997	1.50%	1.60%
1998	0.60%	3.00%
1999	2.10%	3.00%
2000	3.50%	3.40%
2001	3.20%	3.20%
2002	2.80%	2.80%
2003	4.50%	2.80%
2004	1.80%	1.80%
2005	3.90%	3.00%
2006	4.50%	4.36%
2007	4.00%	3.86%
2008	3.60%	3.45%
2009	-1.60%	0.00%
2010	2.40%	2.40%
2011	3.50%	3.50%
2012	2.00%	2.00%
2013	1.30%	2.00%
2014	1.00%	1.00%
2015	0.20%	2.00%