

# **WATER USE REPORT**

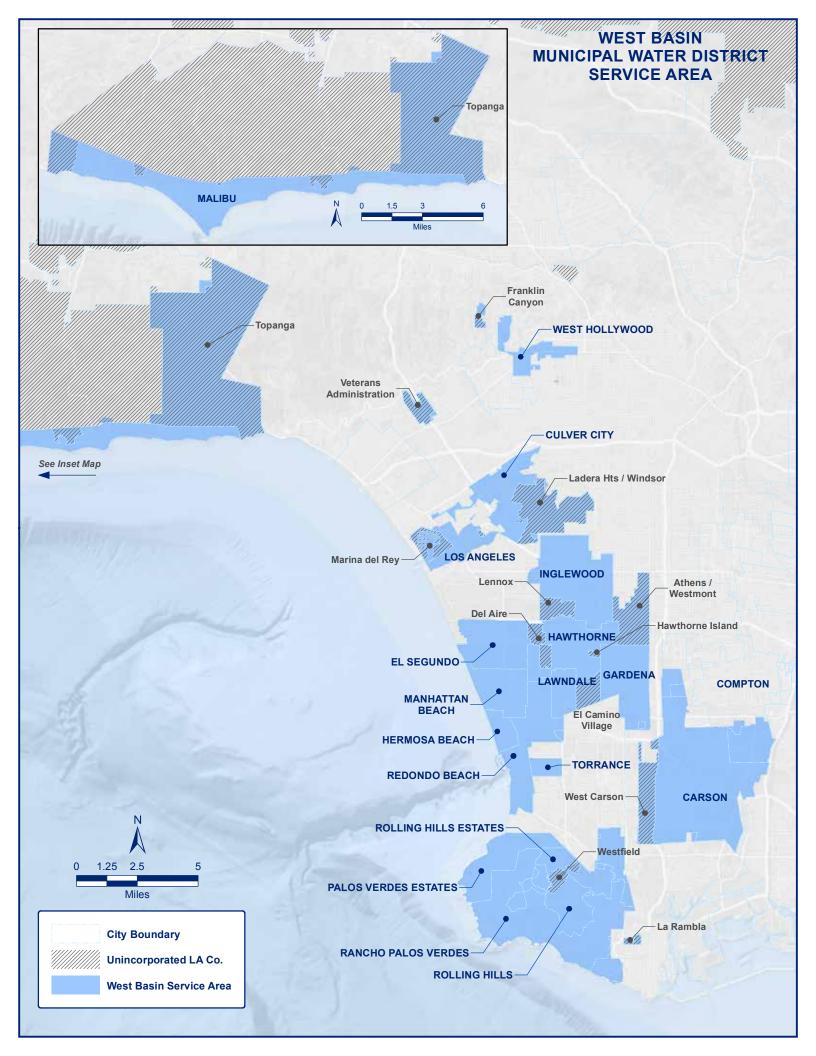
Fiscal Year 2016-2017

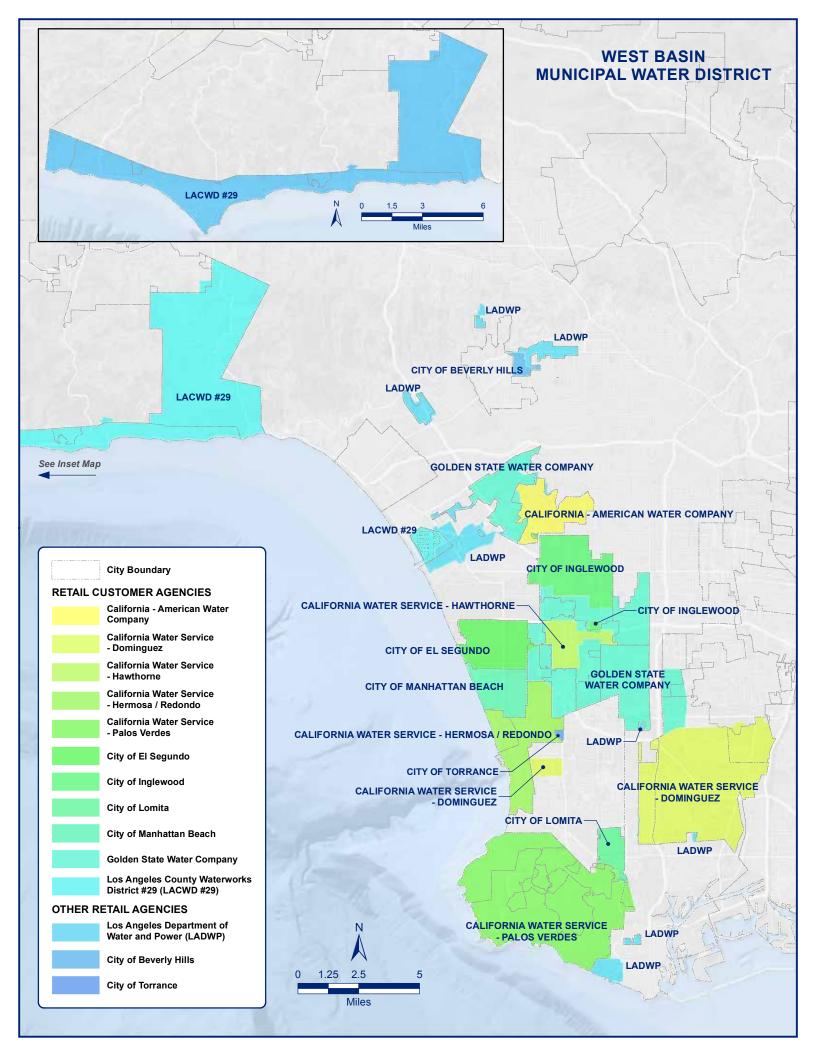
17140 S. Avalon Blvd., Suite 210 Carson, CA 90746

www.westbasin.org









### FISCAL YEAR 2016-2017 ACCOMPLISHMENTS



#### **FINANCE**

- Completed the required biennial actuarial report for the Public Agency Retirement Services (PARS) plan.
- Received an Innovation Award from the California Society of Municipal Finance Officers for its work on improved processes in asset management to record and dispose of capital assets.
- Received an Excellence in Financial Reporting Award for West Basin's Comprehensive Annual Financial Report (CAFR) for Fiscal Year (FY) 2015-16 from the Government Finance Officers Association (GFOA).
- Received Excellence in Budget Recognition for the FY 2016-17 Operating Budget from GFOA and the California Society of Municipal Finance Officers (CSMFO).
- Successfully secured a Wellness Grant through Association of California Water Agencies/Joint Powers Insurance Authority (ACWA/JPIA) to assist in West Basin's health and wellness initiatives for its employees.

#### WATER RECYCLING OPERATIONS

- Developed a Microfiltration Taskforce to implement short and long-term microfiltration improvements across all water recycling facilities to ensure reliability and water qulaity requirements.
- Completed Juanita Millender-McDonald Carson Regional Water Recycling Plant (JMMCRWRP) HVAC building improvements.
- Installed field monitoring devices for water quality, pressure and flow.
- Connected nine new recycled water sites, adding an estimated 129 Acre-Feet (AF) of demand annually.
- Negotiated and executed a new five-year operations and maintenance agreement with California Water Service.
- Upgraded the District's ArcGIS system to produce maps and other geospatial data.

#### **CAPITAL IMPROVEMENT PROGRAM**

- Began the design of the Solids Handling System
  Rehabilitation Project to ensure reliability of West Basin's
  ability to process biosolids removed from the Hyperion
  Water Reclamation Plant (Hyperion)secondary effluent.
- Began design of the Edward C. Little Water Recycling Facility (ECLWRF) Phase IV and Phase V Microfiltration Optimization Project, to increase annual barrier water production and ensure reliability to both the barrier and Chevron boiler feed systems.
- Began design of the Phase III Clearwell Repair & Rehabilitation (Clearwell R&R) Project to ensure continued and reliable production of the Chevron boiler feed system.
- Completed feasibility studies for expansion of the District's recycled water distribution system to the Kenneth Hahn State Park, the Palos Verdes Peninsula and the City of Torrance.
- Completed the design of the JMMCRWRP expansion, intended to deliver approximately 2,000 Acre-Feet per Year (AFY) additional recycled water to the Tesoro Refinery for cooling tower applications, as well as improve reliability of the microfiltration system used in the boiler feed treatment system.
- Completed the construction of the Carson Mall Lateral Phase II Project to deliver recycled water into new areas within the City of Carson.
- Completed the construction of the South Gardena Lateral Project to deliver recycled water into new areas within the Gardena area.
- Completed construction for the disinfected tertiary recycled water Alkalinity Improvement Project. This project addressed the need for nitrified water upgrades to improve the water quality and enhance production capacity.
- Completed three of seven customer pipeline and connection construction projects with grant funding from California's Proposition 84 grant funding.

### FISCAL YEAR 2016-2017 ACCOMPLISHMENTS

#### **PUBLIC INFORMATION**

- Produced the annual Water Harvest festival, including a Water Reliability Awards breakfast; festival attendance reached approximately 1,750 community members, in which West Basin led tours for nearly 400 attendees.
- Successfully partnered in Metropolitan Water District's (MWD) education programs; sponsored three high school Solar Cup teams and engaged more than 400 students in the Water is Life art contest.
- Served more than 8,000 students in grades 3 to 12 with free water education programs.
- Developed new and/or improved communication vehicles to showcase West Basin's brand and value; including the redesign and development of the organization's website and E-newsletter.
- Offered free, public water education programs: Water 101 Classes, public tours of the ECLWRF and a speakers bureau, all of which reinforce the District's Water Reliability program messages.

#### WATER POLICY AND RESOURCE DEVELOPMENT

- Provided monthly updates to customer agencies regarding the State Water Resources Control Board's mandatory water conservation reporting.
- Conducted an informational workshop with customer agencies to review proposed FY 2017-18 budget and water rates and provide updates on various District programs and projects.
- Increased state and federal advocacy efforts related to securing project and program funding for the West Basin service area.
- Provided regular and timely updates to West Basin's state and federal legislators regarding the ongoing drought crisis, conservation and new local water supply projects.

#### **CONSERVATION**

- Successfully completed five free Rain Barrel Distribution events and distributed more than 1,800 rain barrels.
- Provided residents and large landscape facilities with free landscape surveys and high efficiency nozzle installations.
- Conducted 12 California Friendly Landscape Training classes to teach residents about native and drought tolerant landscaping principles.
- Successfully applied for and was awarded, more than \$800,000 in grant funding from the Department of Water Resources (DWR) for two new water efficiency programs.
- Partnered with customer agencies, local cities and environmental organizations in the development and implementation of its water efficiency programs.

#### WATER QUALITY MONITORING PROGRAM

- Completed annual customer water quality reports for participating retailers.
- Met or exceeded all permit and contractual water quality requirements: completed laboratory services required to comply with Federal Safe Drinking Water Act and California Title 22 Drinking Water regulations such as analyses of all inorganic, organic compounds and radioactivity.
- Provided purveyor workshops to help coordinate between water entities on important water quality and compliance issues.



### FISCAL YEAR 2017-2018 STRATEGIES



#### **FINANCE**

- Incorporate the Board's input on the fixed revenue charge on FY 2017-18 budget and rate cycle. Develop scope and post solicitation for an evaluation of the recycled water system rates and charges and recommend changes, if any, to the current rate methodology for imported water and other charges.
- Continue to develop elements of a Small Business Enterprise program from reporting to the solicitation process.
- Plan and conduct the second annual Wellness Fair in support of West Basin's wellness initiatives for all staff.
- Update the District's Succession Plan for review and approval of Senior Management and the Board.
- Board of Directors will finalize the review of the Strategic Business Plan and deploy to staff to develop the strategies to accomplish the Board-directed goals.

#### WATER RECYCLING OPERATIONS

- Continue to support existing customer water quality inquiries.
- Enhance and increase the water sampling locations throughout the distribution system.
- Update the current Computerized Maintenance Management System software to make it more user-friendly and improve data reliability.
- Continue to develop and implement the prioritized asset management recommendations to maximize the asset life and optimize maintenance activities.
- Install a flowmeter to capture all "Westside" Los Angeles Department of Water and Power recycled water demands.
- Implement instrumentation upgrades as a result of the dashboard reports.
- Complete the Arc Flash electrical hazard assessments for the water recycling facilities.

#### **CAPITAL IMPROVEMENT PROGRAM**

- Begin construction of the JMMCRWRP expansion, intended to deliver approximately 2,000 AFY additional recycled water to the Tesoro Refinery for cooling tower applications.
- Continue construction of the Hyperion Effluent Pump Station Expansion and Secondary Electrical Feed Project. The pump station project will provide additional capacity to serve future recycled water demands and add a second power source to the existing facility.
- Complete design and begin operation of the ECLWRF Phase IV Microfiltration Optimization Project, to increase annual barrier water production and ensure reliability to both the barrier and Chevron boiler feed systems.
- Begin construction of the ECLWRF Phase V Microfiltration expansion project.
- Complete construction of the Phase III Clearwell R&R
   Project to ensure continued and reliable production of
   the Chevron boiler feed system.
- Complete construction of the Chlorine Contact Basin Rehabilitation Project to ensure adequate chlorine contact time for disinfected tertiary recycled water.
- Complete construction of the Reverse Osmosis (RO)
   Clean-in-Place Waste Discharge Project to allow RO
   cleaning chemicals to be discharged to the sewer rather
   than being combined with RO brine and discharged to
   Hyperion ocean outfall.
- Complete the construction for the ECLWRF Visitor Center Renovation to expand the visitor center space, renovate interior of the existing office spaces, relocate the control room, update interpretive messages and renovate exhibits.
- Begin several Repair & Rehabilitation (R&R) projects including: Torrance Refinery Water Recycling Plant Waste Discharge Capacity Increase Project, Hyperion Secondary Effluent Pump Station, Facility-Wide Surge Tank Project and Welded Steel Storage Tank Rehabilitation Project.

### FISCAL YEAR 2017-2018 STRATEGIES

#### **PUBLIC INFORMATION**

- Host the annual Water Harvest festival in 2018 to provide the community with informative, water and environmental stewardship related booths, information and devices.
- Provide quality education programs for grades 3 to 12, including the enhancement of educational information on the District website and participation in Solar Cup.
- Continue to support the update of the exhibits and educational facilities at the ECLWRF.
- Improve District communications highlighting recycled water accomplishments and strategies for maximizing water reuse.
- Outreach to key stakeholders throughout the service area to inform and assess support for the District's Ocean Water Desalination Program, a component of the Water Reliability Program.

#### **CONSERVATION**

- Update West Basin's long-term Water Use Efficiency Plan.
- Launch the new "Comprehensive Water Conservation Program" in the cities of Malibu and Topanga.
- Launch two new DWR grant funded programs:
  - 1. Cash for Kitchens
  - 2. Disadvantaged Area Community (DAC) Water and Energy Savings Initiative Program
- Continue to seek federal and state grant funding to support new and ongoing water efficiency programs.
- Continue to provide free landscape surveys for residential and commercial sites within the District's service area.
- Continue to partner with environmental organizations for the distribution of rain barrels and provide free rainwater/greywater public workshops.

#### WATER POLICY AND RESOURCE DEVELOPMENT

- Continue to monitor and advocate for long term solutions to California's water crisis, including the Bay Delta Conservation Plan/California WaterFix.
- Monitor and advocate for legislation and regulations to implement a long-term strategy to make water conservation a "California Way of Life."
- Continue to pursue state, federal and other external funding for conservation and reliability projects within the West Basin service area and support the efforts of our customer agencies and stakeholders, particularly for projects that provide immediate water savings during the drought.
- Continue leadership role in the Greater Los Angeles County Integrated Regional Water Management Program, including administration, on behalf of the region, of its financial resources.
- Pursue a Local Resources Program (LRP) incentive with MWD for the District's recycled water expansion to the Tesoro Refinery in the City of Carson.

#### WATER QUALITY MONITORING PROGRAM

- Complete annual customer water quality reports for participating retailers.
- Meet permit and contractual water quality requirements: Complete laboratory services required to comply with Federal Safe Drinking Water Act and California Title
   22 Drinking Water regulations such as analyses of all inorganic, organic compounds and radioactivity.
- Provide purveyor workshops to help coordinate between water companies on important water quality and compliance issues.

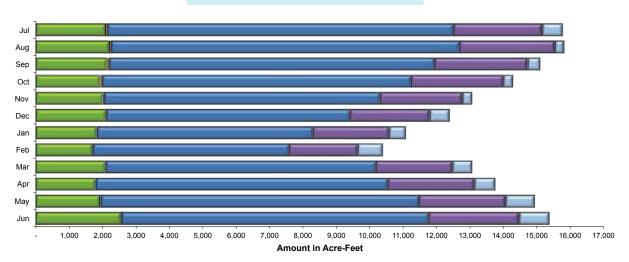




## **West Basin Municipal Water District**

17140 S. Avalon Blvd., Carson CA 90746

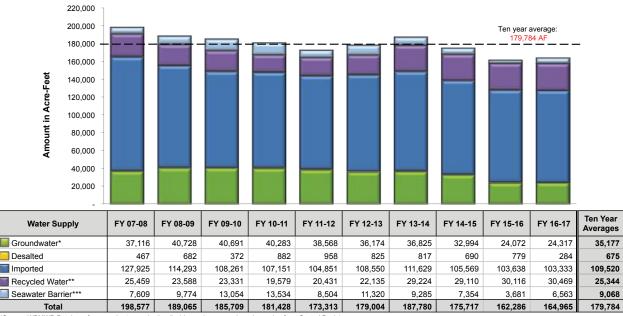
#### FY 2016-17 Total Water Use



West Basin MWD						FY 20	16-17						TOTAL
West basin www	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	IOIAL
Groundwater*	2,085	2,194	2,124	1,926	2,016	2,101	1,825	1,703	2,086	1,796	1,921	2,541	24,317
Desalted	54	55	58	54	21	-	-	-	-	-	23	20	284
Imported	10,368	10,435	9,752	9,257	8,271	7,312	6,481	5,887	8,099	8,745	9,527	9,200	103,333
Recycled Water**	2,659	2,852	2,788	2,761	2,466	2,389	2,287	2,067	2,298	2,595	2,598	2,706	30,469
Seawater Barrier***	592	263	371	280	288	587	490	740	577	618	857	900	6,563
Total	15,758	15,799	15,093	14,277	13,063	12,389	11,084	10,396	13,060	13,754	14,926	15,367	164,965

<sup>\*</sup>Source: WBMWD Database for groundwater production (inside service area only and pumping from Central Basin).

#### 10-Year Average Total Water Use



<sup>\*</sup>Source: WBMWD Database for groundwater production (inside service area only and pumping from Central Basin)

<sup>\*\*</sup>Source: WBMWD Database (excludes City of Torrance, Torrance - Torrance Refining Recycled Water, and LADWP).

 $<sup>\</sup>ensuremath{^{***}}\xspace$  Includes imported sales to WRD-West Coast Barrier and Dominguez Gap.

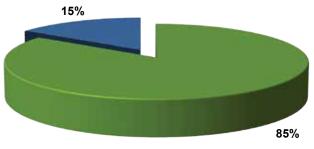
<sup>\*\*</sup>Source: WBMWD Database (excludes City of Torrance, Torrance - Mobil Recycled Water, and LADWP).

<sup>\*\*\*</sup>Includes imported sales to WRD-West Coast Barrier and Dominguez Gap.

# **California American Water Company**

8657 Grand Ave., Rosemead, CA 91770

#### FY 2016-17 Total Water Use



Adjudicated Water Rights 2,067 AF

Imported Connections WB-22 WB-27

**2017 Capacity Reservation Charge (cfs)** 2014 = 3.7 (CRC) 2015 = 2.8 2016 = 1.3

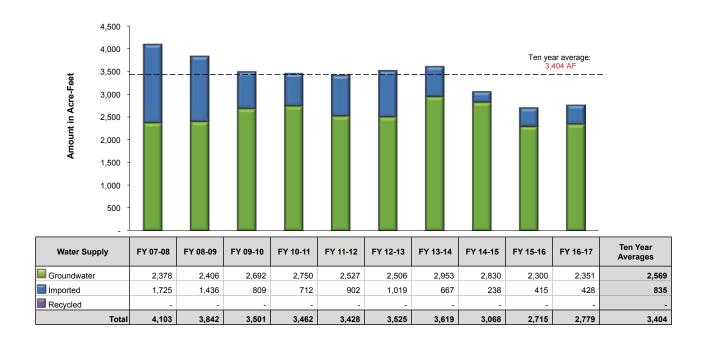
Note: The 2017 CRC is the highest daily average flow for the past three years

Groundwater*	Imported
Groundwater*	Imported

Water Cumply						FY 20	16-17						TOTAL
Water Supply	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	IOIAL
Groundwater*	211	192	222	188	197	247	161	148	211	215	184	176	2,351
Imported	50	74	72	34	3	-	0	-	-	-	78	117	428
Recycled	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	260	266	294	222	200	247	161	148	211	215	262	293	2,779

 $<sup>{}^{\</sup>star}\text{All groundwater is pumped from Central Basin and imported into Cal American service area within West Basin.}$ 

#### 10-Year Average Total Water Use

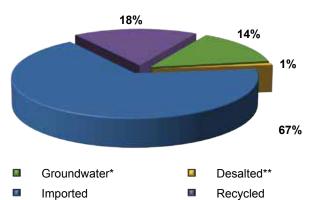


**Contact:** Mr. Garry Hofer, Vice President of Operations **Office:** (626) 614-2511

### **California Water Service – Dominguez**

2632 West 237th Street, Torrance, CA 90505-5272

#### FY 2016-17 Total Water Use



#### Adjudicated Water Rights 10,417 AF

 Imported Connections

 WB-09
 WB-10
 WB-14
 WB-19

 WB-21
 WB-35
 WB-36
 WB-39

2017 Capacity Reservation Charge (cfs)

2014 = 51.1 (CRC) 2015 = 46.5 2016 = 45.9

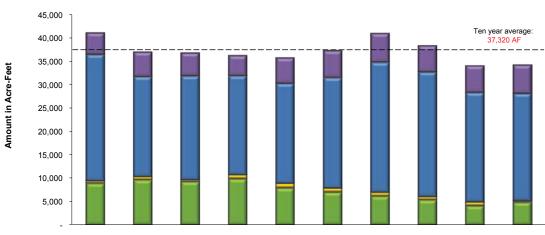
Note: The 2017 CRC is the highest daily average flow for the past three years

					·								
Water Supply						FY 20	16-17						TOTAL
vvater Supply	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	IOIAL
Groundwater*	349	470	428	384	452	466	413	418	488	271	288	463	4,888
Desalted**	54	55	58	54	21	_	-	-	-	-	23	20	284
Imported	2,312	2,287	2,179	1,981	1,786	1,766	1,607	1,454	1,902	1,868	2,001	1,907	23,049
Recycled	604	620	603	528	525	504	483	398	409	517	468	511	6,169
Total	3,319	3,431	3,268	2,946	2,784	2,735	2,504	2,269	2,799	2,655	2,779	2,900	34,389

<sup>\*</sup>Cal Water Dominguez has groundwater rights within the West Coast Basin and Central Basin. The number shown is the amount pumped from both West Coast Basin and Central Basin.

#### \*\*The Desalted Water is not pumped but rather sold to Cal Water Dominguez.

#### 10-Year Average Total Water Use



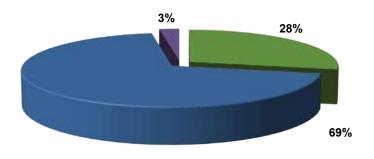
Water Supply*	FY 07-08	FY 08-09	FY 09-10	FY 10-11	FY 11-12	FY 12-13	FY 13-14	FY 14-15	FY 15-16	FY 16-17	Ten Year Averages
Groundwater	8,962	9,666	9,298	9,885	7,959	7,050	6,183	5,379	4,158	4,888	7,343
Desalted	467	682	372	882	958	825	817	691	779	284	676
Imported	27,095	21,483	22,310	21,226	21,425	23,730	27,871	26,735	23,489	23,049	23,841
Recycled	4,690	5,293	4,959	4,392	5,538	5,841	6,245	5,669	5,803	6,169	5,460
Total	41,215	37,124	36,938	36,385	35,880	37,446	41,115	38,474	34,230	34,389	37,320

<sup>\*</sup>California Water Service merged with Dominguez Water Company in mid-2000 and was renamed as California Water Service - Dominguez District.

## California Water Service - Hawthorne

2632 West 237th Street, Torrance, CA 90505-5272

#### FY 2016-17 Total Water Use



Adjudicated Water Rights 1,882 AF Imported Connections WB-18 WB-20

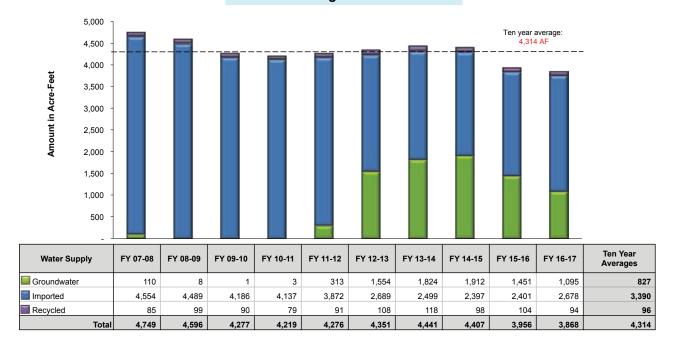
**2017 Capacity Reservation Charge (cfs)** 2014 = 7.5 (CRC) 2015 = 6.5 2016 = 6.

Note: The 2017 CRC is the highest daily average flow for the past three years

Groundwater ■ Imported ■ Recycled

Mateu Cumphi						FY 20	16-17						TOTAL
Water Supply	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	IOIAL
Groundwater	138	160	146	116	71	141	105	-	-	0	57	162	1,095
Imported	202	174	175	204	251	149	174	265	316	310	300	159	2,678
Recycled	11	14	13	12	7	7	2	1	2	6	8	10	94
Total	351	348	334	331	329	296	281	266	318	317	365	331	3,868

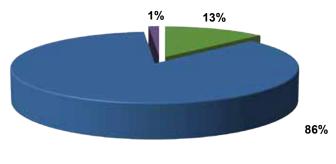
#### 10-Year Average Total Water Use



## California Water Service – Hermosa Redondo

2632 West 237th Street, Torrance, CA 90505-5272

#### FY 2016-17 Total Water Use



Adjudicated Water Rights 4,070 AF

Imported Connections
WB-2B WB-5 WB-16 WB-29

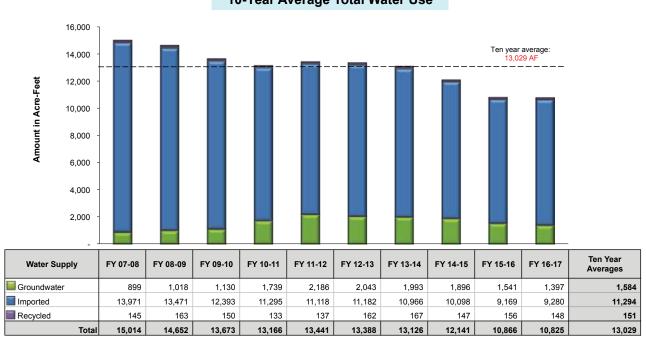
**2017 Capacity Reservation Charge (cfs)** 2014 = 20.7 (CRC) 2015 = 18.6 2016 = 17.1

Note: The 2017 CRC is the highest daily average flow for the past three years

Groundwater Imported Recycled

Water Supply						FY 20	16-17						TOTAL
Water Supply	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	IOIAL
Groundwater	119	145	133	144	144	151	106	84	93	92	92	93	1,397
Imported	887	873	819	796	707	657	665	595	742	780	892	868	9,280
Recycled	19	18	26	18	10	8	4	1	2	8	14	19	148
Total	1,026	1,036	977	959	862	816	775	680	838	881	997	979	10,825

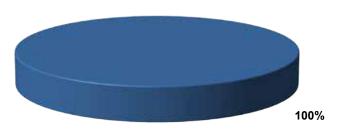
#### 10-Year Average Total Water Use



### **California Water Service – Palos Verdes**

2632 West 237th Street, Torrance, CA 90505-5272

#### FY 2016-17 Total Water Use



Adjudicated Water Rights
-- AF

Imported Connections
WB-6A WB-6B WB-32 WB-40

2017 Capacity Reservation Charge (cfs)

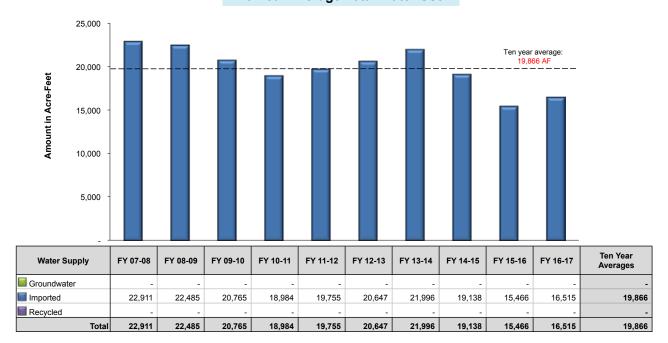
2014 = 44.2 (CRC) 2015 = 33.9 2016 = 34.8

Note: The 2017 CRC is the highest daily average flow for the past three years

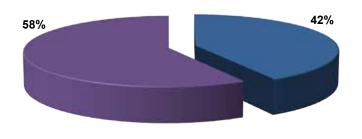


Water Supply						FY 20	16-17						TOTAL
Water Supply	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	IOIAL
Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-
Imported	1,782	1,773	1,683	1,563	1,309	979	699	606	1,202	1,509	1,678	1,734	16,515
Recycled	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	1,782	1,773	1,683	1,563	1,309	979	699	606	1,202	1,509	1,678	1,734	16,515

#### 10-Year Average Total Water Use



#### FY 2016-17 Total Water Use



Adjudicated Water Rights 953 AF

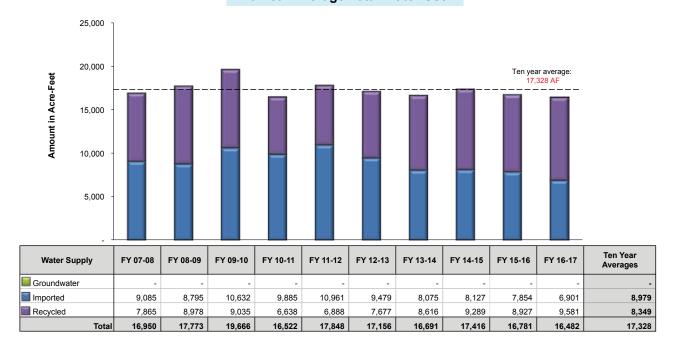
Imported Connections WB-03 WB-28

Note: The 2017 CRC is the highest daily average flow for the past three years

■ Imported ■ Recycled

Matau Cumphy						FY 20	16-17						TOTAL
Water Supply	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	IOIAL
Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-
Imported	682	723	653	595	553	530	512	412	544	540	575	582	6,901
Recycled	865	838	798	853	798	790	720	679	785	795	857	803	9,581
Total	1,547	1,560	1,451	1,447	1,351	1,320	1,232	1,091	1,329	1,336	1,432	1,385	16,482

#### 10-Year Average Total Water Use

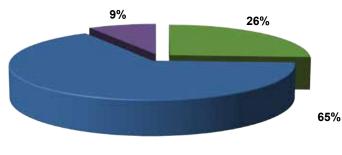


Contact: Mr. Ken Berkman, Public Works Director Office: (310) 524-2356 Fax: (310) 640-0489

# City of Inglewood

One Manchester Blvd., Inglewood, CA 90301

#### FY 2016-17 Total Water Use



Adjudicated Water Rights 4,450 AF Imported Connections

WB-17 WB-38

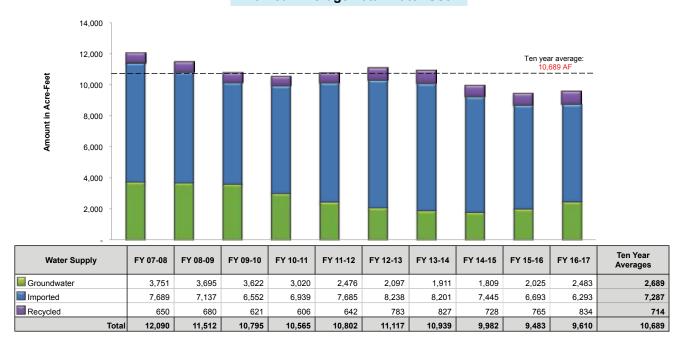
**2017 Capacity Reservation Charge (cfs)** 2014 = 15.0 (CRC) 2015 = 11.5 2016 = 12.0

Note: The 2017 CRC is the highest daily average flow for the past three years

■ Groundwater ■ Imported ■ Recycled

Water Supply						FY 201	6-17						TOTAL
Water Supply	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	IOIAL
Groundwater	205	196	178	199	222	229	227	210	214	205	198	199	2,483
Imported	612	625	593	570	491	444	406	358	486	533	586	590	6,293
Recycled	122	117	102	80	57	20	7	5	50	80	99	95	834
Total	938	938	873	849	771	693	639	573	750	818	884	884	9,610

#### 10-Year Average Total Water Use



# Los Angeles County Waterworks District 29 & Marina Del Rey

900 S. Freemont Ave., Alhambra, CA 91803

#### FY 2016-17 Total Water Use



Adjudicated Water Rights
-- AF
Imported Connections
WB-26A WB-26B WB-26C
2017 Capacity Reservation Charge (cfs)

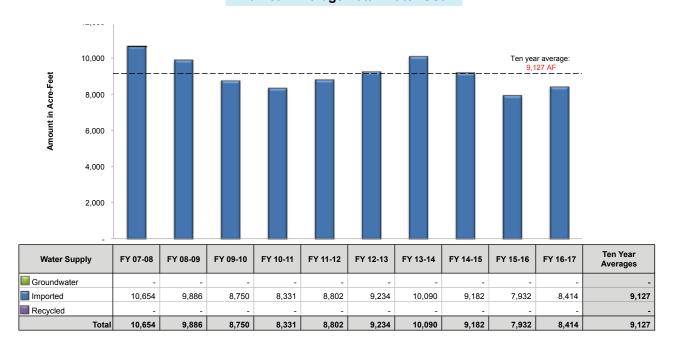
2014 = 18.2 (CRC) 2015 = 16.9 2016 = 17.7

Note: The 2017 CRC is the highest daily average flow for the past three years

Imported

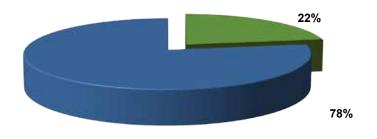
Mateu Cumphi						FY 20	16-17						TOTAL
Water Supply	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	IOIAL
Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-
Imported	856	890	808	850	812	594	411	361	601	703	764	766	8,414
Recycled	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	856	890	808	850	812	594	411	361	601	703	764	766	8,414

#### 10-Year Average Total Water Use



Contact: Mr. Kirk Allen, Water Resources Manager Office: (877) 637-3661 Fax: (626) 300-3385

#### FY 2016-17 Total Water Use



Adjudicated Water Rights 1,352 AF Imported Connections

WB-07 WB-08

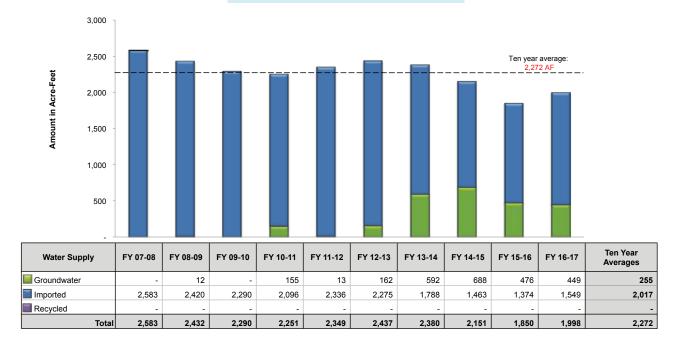
**2017 Capacity Reservation Charge (cfs)** 2014 = 3.6 2015 = 3.9 (CRC) 2016 = 3.8

Note: The 2017 CRC is the highest daily average flow for the past three years

■ Groundwater ■ Imported

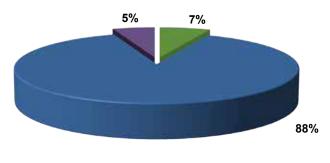
Water Comple						FY 20	16-17						TOTAL
Water Supply	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	IOIAL
Groundwater	55	6	2	17	47	44	15	34	47	57	64	60	449
Imported	133	185	178	177	111	102	123	89	104	109	121	117	1,549
Recycled	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	187	191	180	194	158	146	138	124	151	167	185	177	1.998

#### 10-Year Average Total Water Use



Contact: Mr. Mark McAvoy, Public Works Director Office: (310) 325-7110 Fax: (310) 325-4025

#### FY 2016-17 Total Water Use



Adjudicated Water Rights 1,131 AF Imported Connections WB-04

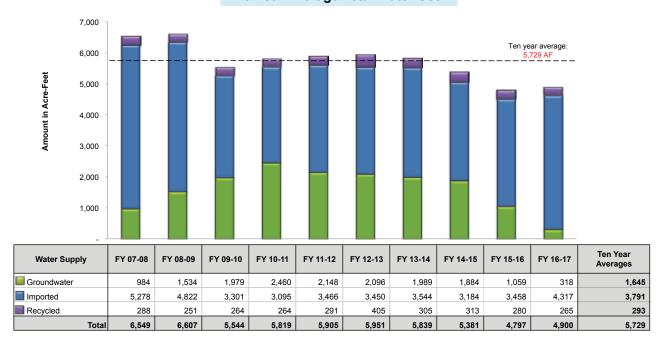
**2017 Capacity Reservation Charge (cfs)** 2014 = 10.3 (CRC) 2015 = 7.8 2016 = 8.2

Note: The 2017 CRC is the highest daily average flow for the past three years

Groundwater Imported Recycled

Matau Cumplu		FY 2016-17												
Water Supply	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	TOTAL	
Groundwater	13	28	17	15	7	15	9	12	50	25	63	63	318	
mported [mail: 1]	437	417	400	400	370	334	295	253	308	364	370	369	4,317	
Recycled	37	41	28	27	18	11	1	1	17	21	30	33	265	
Total	487	485	446	441	395	361	305	267	375	410	462	465	4,900	

#### 10-Year Average Total Water Use

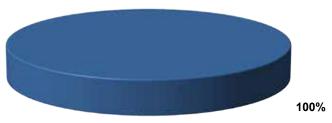


Contact: Ms. Stephanie Katsouleas, Public Works Director Office: (310) 802-5300 Fax: (310) 802-5301

# **Golden State Water Company – Culver City**

5839 Green Valley Circle., Suite 106, Culver City, CA 90230

#### FY 2016-17 Total Water Use



■ Imported

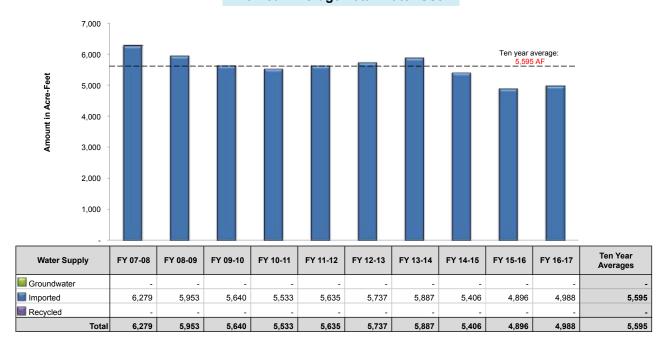
#### Adjudicated Water Rights 7,502 AF

Imported Connections
WB-23 WB-24 WB-34

Note: The 2017 CRC is the highest daily average flow for the past three years. The CRC shown is for GSWC Southwest District and Culver City combined.

Matau Cumplu	FY 2016-17												TOTAL
Water Supply	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	IOIAL
Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	
mported	469	489	453	438	412	383	337	304	395	426	448	437	4,988
Recycled	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	469	489	453	438	412	383	337	304	395	426	448	437	4,988

#### 10-Year Average Total Water Use

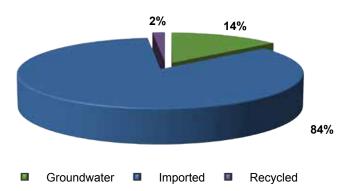


**Contact:** Mr. Rich Mathis, General Manager **Office:** (909) 394-2272 **Fax:** (310) 436-6065

### **Golden State Water Company – Southwest District**

1600 W. Redondo Beach Blvd., #101, Gardena, CA 90247

#### FY 2016-17 Total Water Use



#### Adjudicated Water Rights 7.502 AF

Imported Connections

VB-1 WB-2A WB-11 WB-12 W

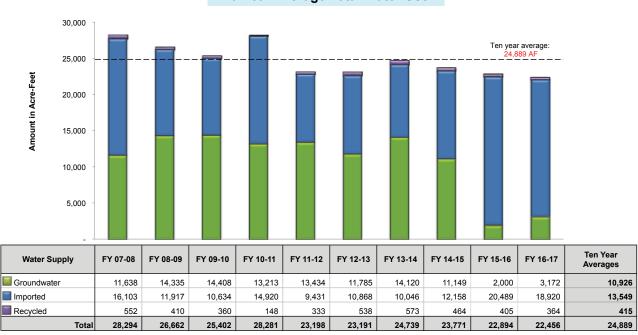
WB-15 WB-25 WB-30 WB-31 WB-33

2017 Capacity Reservation Charge (cfs)

Note: The 2017 CRC is the highest daily average flow for the past three years. The CRC shown is for GSWC Southwest District and Culver City combined.

Water Supply	FY 2016-17												TOTAL
vvaler Supply	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	IOIAL
Groundwater	191	195	282	250	228	234	234	209	264	239	321	525	3,172
mported Imported	1,946	1,928	1,740	1,651	1,466	1,374	1,252	1,190	1,499	1,603	1,716	1,555	18,920
Recycled	55	48	44	34	21	11	2	1	13	44	46	45	364
Total	2,192	2,171	2,066	1,935	1,716	1,619	1,488	1,400	1,776	1,886	2,082	2,126	22,456

#### 10-Year Average Total Water Use

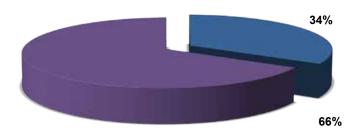


**Contact:** Ms. Katherine Nutting, District Manager **Office:** (310) 767-8200 ext. 500 **Fax:** (310) 436-6065

## Water Replenishment District of Southern California

4040 Paramount Blvd., Lakewood, CA 90712

#### FY 2016-17 Total Water Use



Adjudicated Water Rights
--- AF

Imported Connections WB-28 WB-37

2017 Capacity Reservation Charge (cfs)

2014 = 22.7 (CRC) 2015 = 2.8 2016 = 14.3

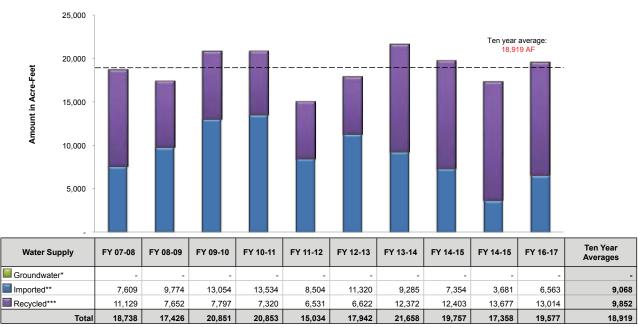
Note: The 2017 CRC is the highest daily average flow for the past three years

7.	Imported*	7	Recycled**
_	IIIIporteu	_	1 CCC y ClC C

Water Supply	FY 2016-17												
Water Supply	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	TOTAL
Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-
Imported*	592	263	371	280	288	587	490	740	577	618	857	900	6,563
Recycled**	946	1,156	1,174	1,209	1,030	1,039	1,068	981	1,021	1,124	1,076	1,191	13,014
Total	1,538	1,420	1,545	1,489	1,318	1,626	1,557	1,721	1,598	1,742	1,933	2,091	19,577

<sup>\*</sup>Imported water purchased is for the West Coast and Dominguez Gap Seawater Barriers.

#### 10-Year Average Total Water Use



<sup>\*</sup>Groundwater purchased is for the WRD Goldsworthy Desalter.

<sup>\*\*</sup>All recycled water purchased is for the West Coast Seawater Barrier.

<sup>\*\*</sup>Imported water purchased is for the West Coast and Dominguez Gap Seawater Barriers.

<sup>\*\*\*</sup>All recycled water purchased is for the West Coast Seawater Barrier.



### WATER RECYCLING PROGRAM



#### **CURRENT & PLANNED PROJECTS**

To effectively respond to current and potentially long-term drought conditions, imported water uncertainty and regulatory restrictions, West Basin Municipal Water District (West Basin) actively pursues locally supplied water as a viable alternative to ensure a reliable supply of water today and for the future. To meet this objective, West Basin has implemented an aggressive program to find the right solution for the region by continuing conservation efforts, increasing recycled water deliveries and potentially incorporating ocean-water desalination into West Basin's water portfolio in the future. The major recycled water capital projects taking place in the more immediate term are explained in further detail below.

#### ECLWRF REVERSE OSMOSIS CLEAN-IN-PLACE WASTE DISCHARGE



**Purpose:** Currently, Reverse Osmosis (RO) and Microfiltration (MF) Clean-in-Place (CIP) waste is discharged into the existing brine line along with the RO brine. The existing brine line connects to the Hyperion Wastewater Treatment Plant ocean outfall. This project will allow West Basin to discharge the RO CIP waste to the sewer system to ensure the District will be in compliance with the brine permit issued by the Regional Water Quality Control Board (RWQCB).

**Benefits:** The proposed waste discharge improvements will ensure that West Basin will be in compliance with the brine permit issued by the RWQCB, in order to maintain continuous production for the barrier system and boiler feedwater system for Chevron.

**Project Completion Date:** FY 2017-2018

#### HYPERION PUMP STATION IMPROVEMENTS

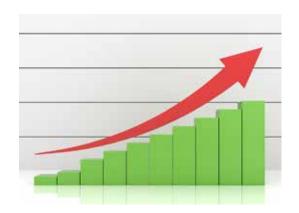


**Purpose:** Construct additional reliability through added pumping capacity and a backup power at West Basin's pump station located at Hyperion Water Reclamation Plant (Hyperion).

**Benefits:** The Hyperion Secondary Effluent Pump Station provides treatedwastewater to the ECLWRF where it is further treated to produce recycled water by West Basin. This project will improve the District's overall recycled water system capacity and reliability with additional capacity and a backup power source for redundancy.

**Project Completion Date:** FY 2018-2019

#### BARRIER PRODUCTION INCREASE



**Purpose:** West Basin's goal is to maximize the recycled water available for injection into the West Coast Basin Seawater Intrusion Barrier (Barrier). The microfiltration systems constructed as part of the Phase IV and V expansions at ECLWRF both include provisions for new membrane units to be installed. The first phase of the project will include modifications to the Phase IV MF units to accommodate replacement membranes and chlorinated cleanings.

**Benefits:** The benefits to West Basin include a reduction of potable water used for injection into the Barrier and an increase in revenue through additional sales of recycled water to the Water Replenishment District of Southern California.

**Project Completion Date:** FY 2017-2018

#### PALL MICROFILTRATION SYSTEM EXPANSION



**Purpose:** This project includes the expansion of the Pall Microfiltration System installed at the ECLWRF as part of the Phase V expansion project.

**Benefits:** The Pall MF System will supplement the diminished capacity of the existing MF trains at ECLWRF and will eventually provide redundancy and additional capacity to West Basin's total microfiltration processes.

**Project Completion Date:** FY 2018-2019

#### **ECLURF VISITOR CENTER RENOVATION**



**Purpose:** Complete construction for the ECLWRF visitor center renovation by expanding the visitor center space, renovating interior office spaces and updating educational exhibits

**Benefits:** The expanded visitor center and additional conference space will allow West Basin to host multiple large special events, industry meetings, conferences and public tours at the ECLWRF. The updated exhibits and visitor center will reinforce the District's mission and will highlight water-related issues and topics for the region.

Completion Date: FY 2018-2019

### WATER RECYCLING PROGRAM

#### PALOS VERDES RECYCLED WATER PIPELINE PROJECT



**Purpose:** Expand West Basin's recycled water distribution system into the Palos Verdes Peninsula.

**Benefits:** West Basin continues to expand its recycled water distribution system to reach large landscapes and other high water-use commercial and industrial sites throughout the service area. The Palos Verdes Recycled Water Pipeline Project will deliver recycled water from the ECLWRF to reach potential customers on the Palos Verdes Peninsula in the southern region of the District's territory.

**Project Completion Date:** FY 2019-2020

#### JUANITA MILLENDER-MCDONALD CARSON REGIONAL RECYCLED WATER PLANT TESORO EXPANSION



**Purpose:** Provide 2.59 Million of Gallons per Day (MGD) of increased supply to the Tesoro Refinery by constructing a tertiary- Membrane Biological Reactor (t-MBR) and fully restoring the MF system capacity.

**Benefits:** This project will increase the supply of recycled water to Tesoro; improve water quality of the nitrified water; reduce breakpoint chlorination to the current nitrified effluent, thereby reducing the chloride content of the wastewater; optimize the Tesoro blend of RO & nitrified water used in their cooling towers; and remove total suspended solids and colloidal iron concentrations.

**Project Completion Date:** FY 2018-2019

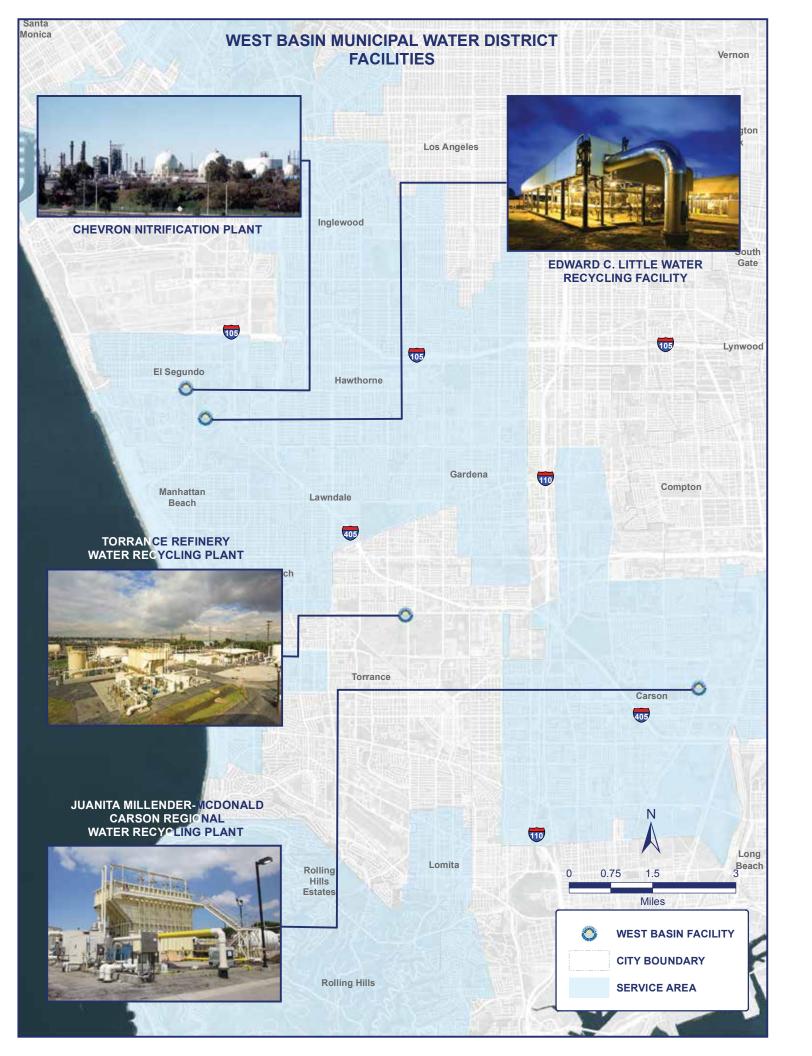
#### **WEST BASIN PIPELINE LATERAL EXTENSIONS**



**Purpose:** Provide increased supply of West Basin's disinfected tertiary recycled water for irrigation and cooling tower supply to various facilities within the District's service area.

**Benefits:** The construction of additional laterals increases West Basin's supply of disinfected tertiary recycled water and reduces the amount of imported water used for potable services. The additional supply also improves the water quality within the distribution system by moving water faster through the system, reducing the potential for biological growth, scale and corrosion within the pipeline.

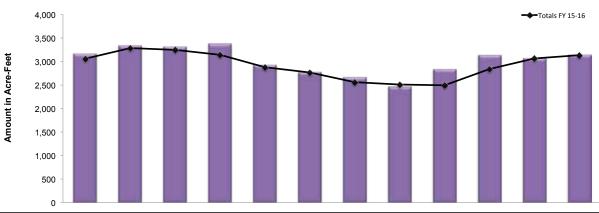
**Completion Date: Continuous** 



# **West Basin Municipal Water District**

17140 S. Avalon Blvd., Carson CA 90746

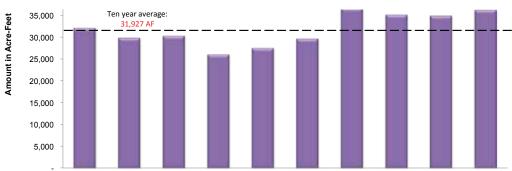
### FY 2016-17 Recycled Water Sales



West Basin MWD						FY 2	016-17						TOTAL
11000 = 00000 10010	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	IUIAL
CWS - Dominguez	604	620	603	528	525	504	483	398	409	517	468	511	6,169
CWS - Hawthorne	11	14	13	12	7	7	2	1	2	6	8	10	94
CWS - Hermosa Redondo	19	18	26	18	10	8	4	1	2	8	14	19	148
City of El Segundo	865	838	798	853	798	790	720	679	785	795	857	803	9,581
City of Inglewood	122	117	102	80	57	20	7	5	50	80	99	95	834
City of Manhattan Beach	37	41	28	27	18	11	1	1	17	21	30	33	265
City of Torrance	402	397	432	549	415	360	371	384	502	472	394	361	5,037
Golden State Water Company	55	48	44	34	21	11	2	1	13	44	46	45	364
LA Dept. of Water and Power	115	102	107	80	58	33	17	23	43	77	85	86	825
Water Replenishment District	946	1,156	1,174	1,209	1,030	1,039	1,068	981	1,021	1,124	1,076	1,191	13,014
Total	3,176	3,351	3,327	3,390	2,939	2,781	2,675	2,474	2,843	3,144	3,077	3,153	36,331

.....

### 10-Year Recycled Water Sales



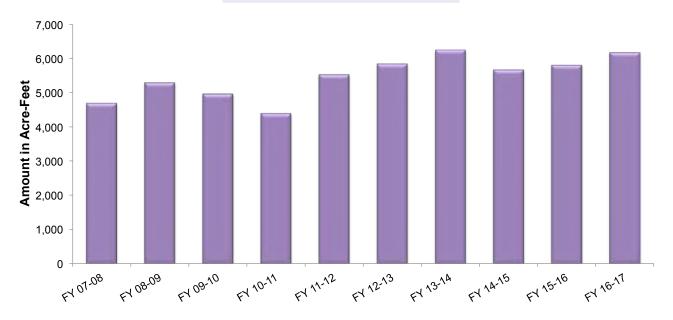
	_											
West Basin MWD	FY	Y 07-08	FY 08-09	FY 09-10	FY 10-11	FY 11-12	FY 12-13	FY 13-14	FY 14-15	FY 15-16	FY 16-17	Ten Year Averages
CWS - Dominguez		4,690	5,293	4,959	4,392	5,522	5,841	6,245	5,669	5,803	6,169	5,458
CWS - Hawthorne		85	99	90	79	90	108	118	98	104	94	96
CWS - Hermosa Redondo		145	163	150	133	136	162	167	147	156	148	151
City of El Segundo		7,865	8,978	9,035	6,638	6,888	7,677	8,616	9,300	8,927	9,581	8,350
City of Inglewood		650	680	621	606	642	783	827	728	765	834	714
City of Manhattan Beach		288	251	264	264	291	405	305	313	280	265	293
City of Torrance		6,389	5,876	6,445	5,785	6,352	6,634	6,529	5,270	4,012	5,037	5,833
Golden State Water Company		552	410	360	148	333	538	573	452	405	364	414
Inglewood Unified School District*		56	62	56	-	-	-	-	-	-	-	35
LA Dept. of Water and Power		360	444	608	763	788	968	998	870	874	825	750
Water Replenishment District		11,129	7,652	7,797	7,320	6,531	6,622	12,372	12,403	13,677	13,014	9,852
	Total	32.209	29.908	30.384	26.127	27.571	29.737	36.751	35.250	35.002	36.331	31.927

\* Volumes from FY 10-11 onward are included in the total Recycled Water Sales for the City of Inglewood.

### **California Water Service – Dominguez**

2632 West 237<sup>th</sup> Street, Torrance, CA 90505-5272

#### FY 2016-17 Recycled Water Sales



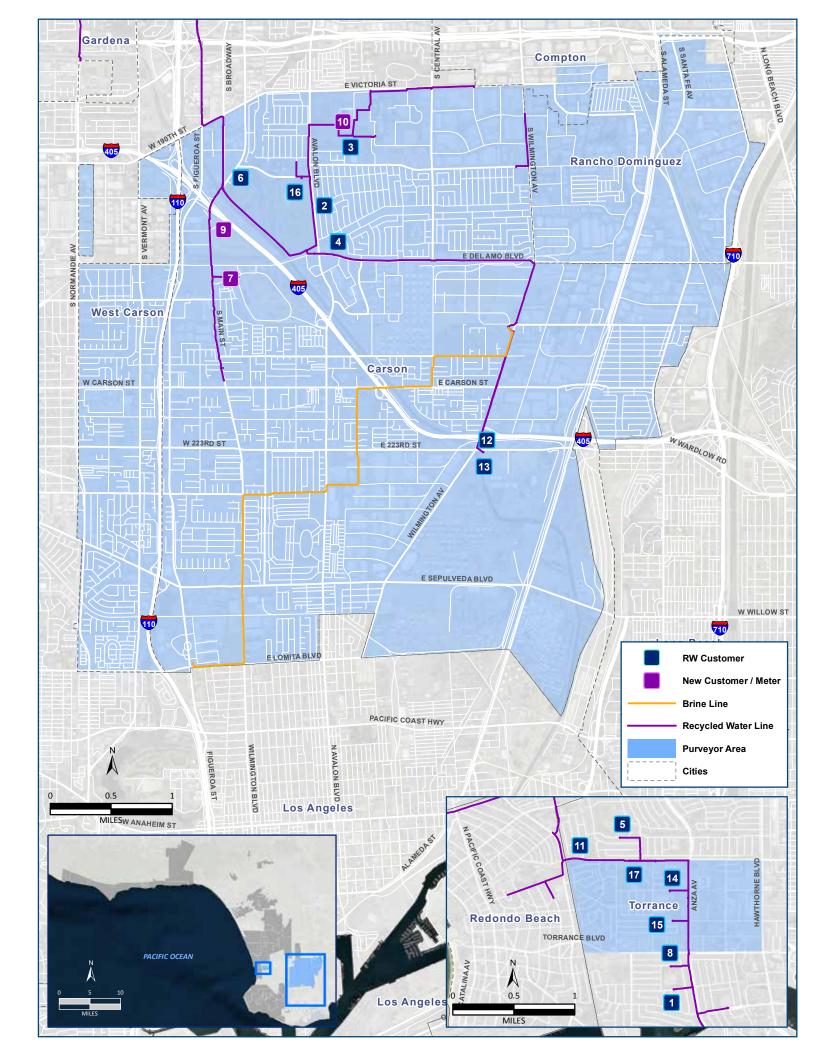
Recycled Water Customer		AF
1 Anza Elementary * ***		12.2
2 Avalon Median N/Elsmere		2.9
3 CSU Dominguez Hills *		142.9
4 City of Carson		3.6
5 Entradero Park		51.6
6 Goodyear		39.3
7 Main Street Medians * **		0.0
8 Paradise Park		9.1
9 Porsche Experience Center **		0.0
10 StubHub Center * **		56.3
11 Sunny Glenn Park		9.5
12 Tesoro Refinery - Nitrification		1,217.1
13 Tesoro Refinery - R/O		4,353.6
14 Victor Elementary *		16.4
15 Victor Park		5.2
16 Victoria Golf Course		219.9
17 West High School *		29.5
	Total	6,168.9

<sup>\*</sup> This data reflects the total for multiple meter connections.

<sup>\*\*</sup> This is a new customer/meter connection for FY 16-17.

\*\*\* Anza Elementary is located within the City of Torrance boundaries.

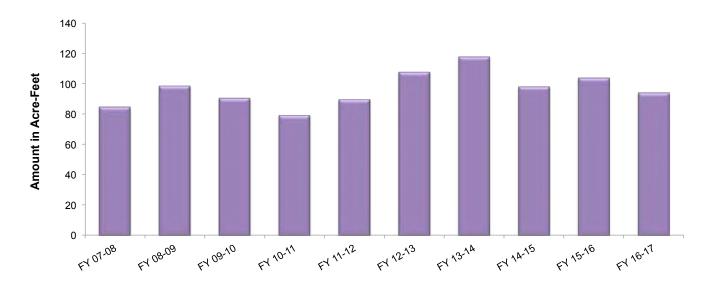
<sup>1</sup> Acre-Foot (AF) is equal to 325,851 gallons



# California Water Service – Hawthorne

2632 West 237th Street, Torrance, CA 90505-5272

### FY 2016-17 Recycled Water Sales

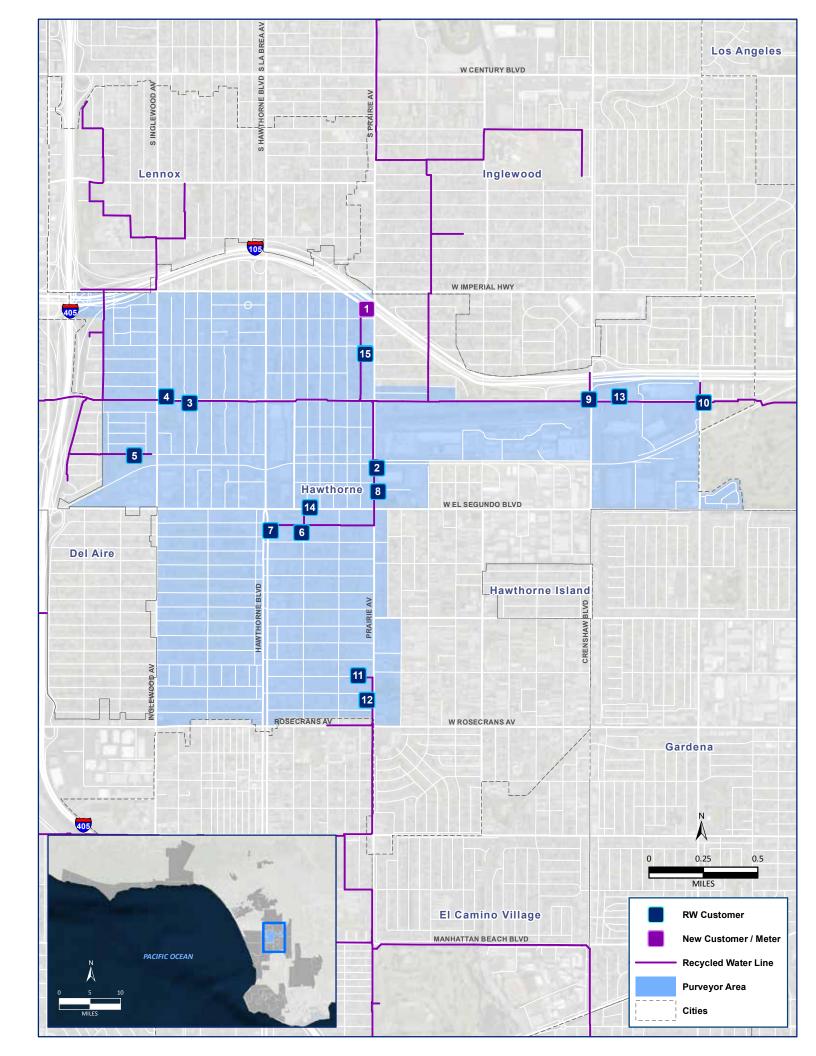


Recy	cled Water Customer		AF
1	Caltrans D07-Maint. **		1.7
2	City of Hawthorne *		3.2
3	Eucalyptus Avenue School *		5.6
4	Eucalyptus Park *		6.3
5	Hawthorne High School *		18.5
6	Hawthorne Intermediate School *		3.8
7	Hawthorne Medians *		9.4
8	Hawthorne Memorial Park *		10.5
9	Hawthorne Municipal Airport *		0.4
10	Holly Park *		15.4
11	Jefferson School		1.8
12	Jim Thorpe Park *		11.1
13	Lowe's		1.1
14	Washington Avenue School *		1.8
15	York Avenue School *		3.5
		Total	94.1

<sup>\*</sup> This data reflects the total for multiple meter connections.

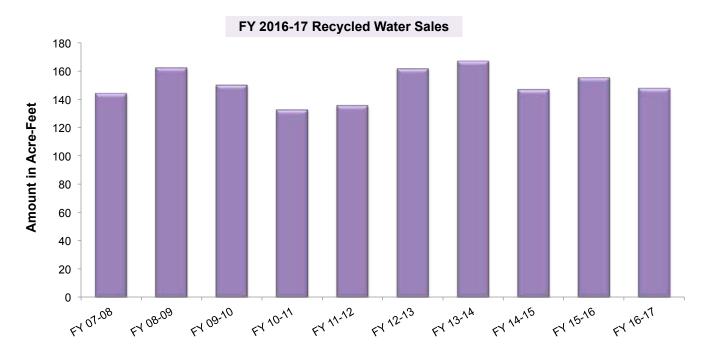
<sup>\*\*</sup> This is a new customer/meter connection for FY 16-17.

<sup>1</sup> Acre-Foot (AF) is equal to 325,851 gallons



### California Water Service – Hermosa Redondo

2632 West 237<sup>th</sup> Street, Torrance, CA 90505-5272

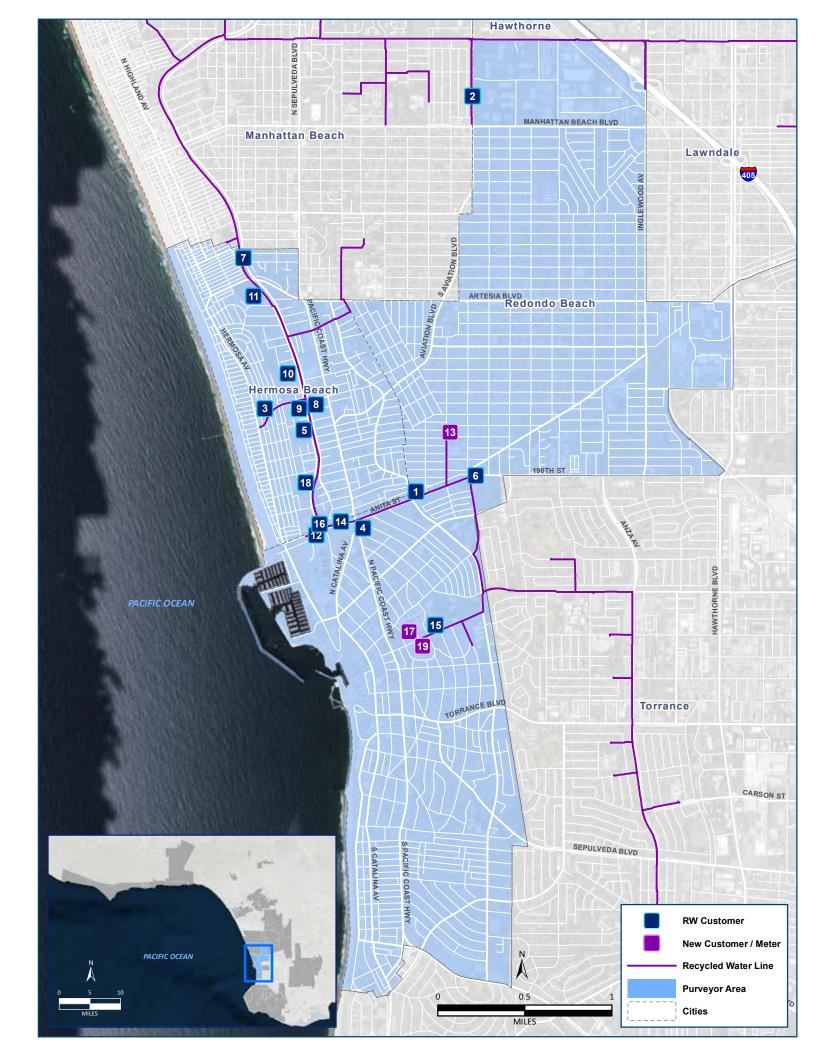


Recyc	eled Water Customer		AF
1	190th St./Prospect Ave Medians (400 Blk) *		0.9
2	Aviation Park *		6.4
3	City of Hermosa Beach		2.4
4	City of Redondo Beach		0.1
5	Clark Park *		9.5
6	Dominguez Park *		23.6
7	Hermosa Beach Greenbelt *		23.5
8	Hermosa Beach Community Center		3.0
9	Hermosa Beach Library And City Hall *		0.5
10	Hermosa Valley Elementary School *		8.2
11	Hermosa Valley Park II *		28.4
12	Herondo/Francisca Median *		3.8
13	Jefferson Elementary School **		0.0
14	PCH/Herondo-King Harbor Park *		0.6
15	Redondo Beach School District *		26.6
16	Redondo Technology Center *		1.0
17	Redondo Union High School * **		0.0
18	South Park *		9.7
19	Vincent Park **		0.0
		Total	148.0

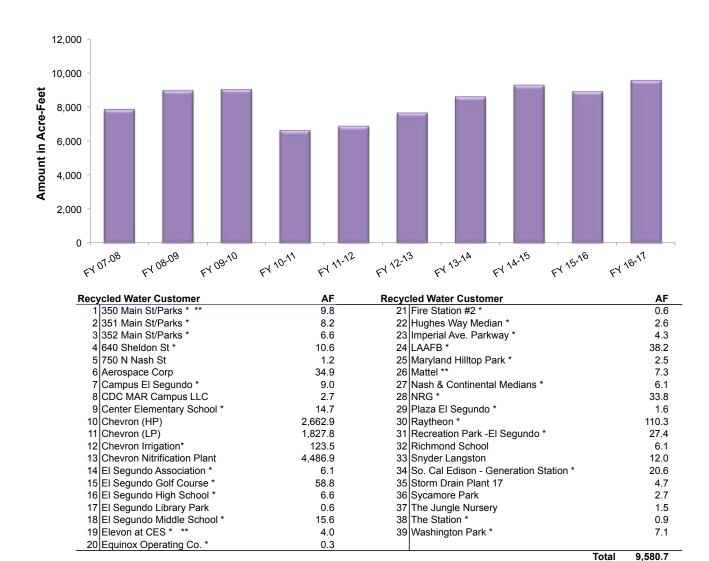
<sup>\*</sup> This data reflects the total for multiple meter connections.

<sup>\*\*</sup> This is a new customer/meter connection for FY 16-17.

<sup>1</sup> Acre-Foot (AF) is equal to 325,851 gallons



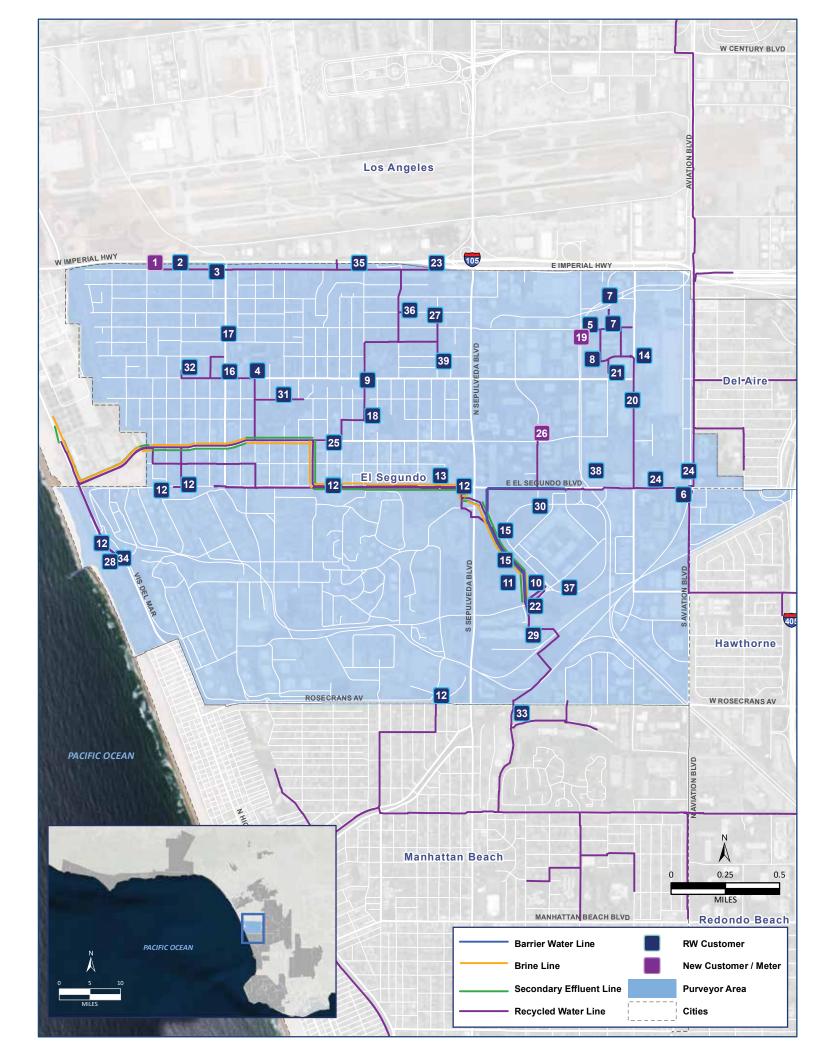
#### FY 2016-17 Recycled Water Sales



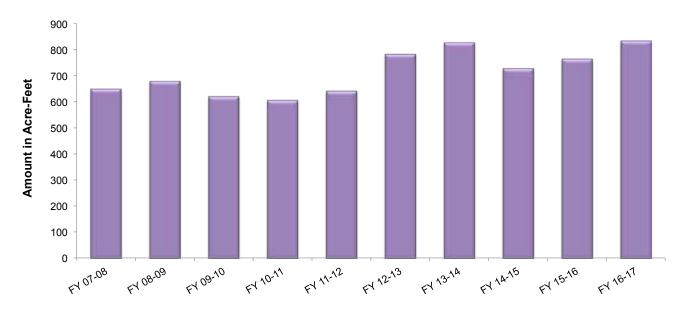
<sup>\*</sup> This data reflects the total for multiple meter connections.

<sup>\*\*</sup> This is a new customer/meter connection for FY 16-17.

<sup>1</sup> Acre-Foot (AF) is equal to 325,851 gallons



### FY 2016-17 Recycled Water Sales



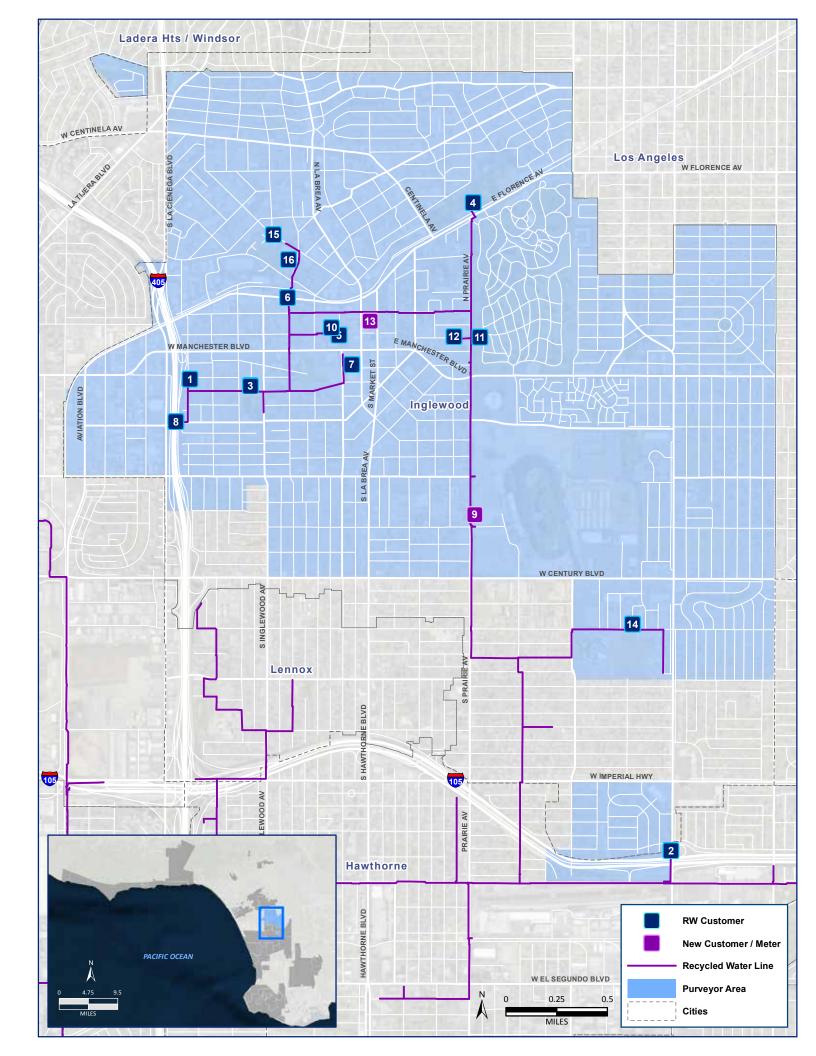
Recy	cled Water Customer		AF
1	Ashwood Park		3.9
2	Caltrans (I-105/Crenshaw) *		1.5
3	Caroline Coleman Stadium *		10.4
4	Centinela (Vincent) Park		78.1
5	Crozier Jr. High		3.5
6	Florence Median		0.1
7	Grevillea Mall Park *		2.5
8	Hillcrest		0.1
9	Hollywood Park * **		166.7
10	Inglewood City Hall		7.4
11	Inglewood Park Cemetery		511.2
12	Manchester		3.3
13	Market Street Medians * **		2.0
14	Morningside School		23.0
15	Rogers Park		16.1
16	Water Treatment Plant *		4.2
		Total	833.8

<sup>\*</sup> This data reflects the total for multiple meter connections.

The site map on the next page corresponds to the numbers listed in the table above.

<sup>\*\*</sup> This is a new customer/meter connection for FY 16-17.

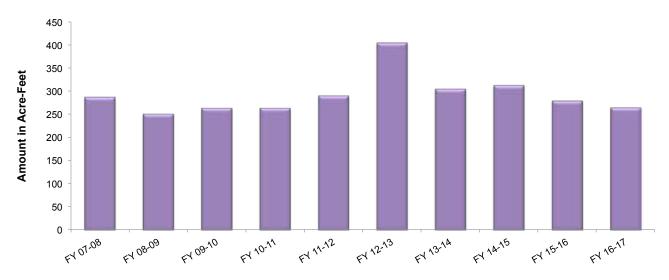
<sup>1</sup> Acre-Foot (AF) is equal to 325,851 gallons



# City of Manhattan Beach

3621 Bell Ave., Manhattan Beach, CA 90266

#### FY 2016-17 Recycled Water Sales



ecycled Water Customer	AF	Recycled Water Customer		AF
1 1230 Rosecrans *	2.5	19 Marine Triangle Median		0.6
2 1508 Aviation *	0.2	20 Marriott Golf		53.9
3 2202 Aviation	0.1	21 MB Fire & Police Landscape		2.4
4 2511 Bell Ave., (Grand View/Ladera) *	3.2	22 Meadows Elementary School *		6.1
5 2632 Bell Ave. E, (Grand View/Ladera) *	5.4	23 Mira Costa High School		21.9
6 2632 Bell Ave. W, (Grand View/Ladera) *	2.1	24 Pennekamp Elementary School *		10.4
7 325 S. Peck	3.5	25 Polliwog Park *		27.4
8 Begg Elementary School	7.4	26 Robinson Elementary School *		5.7
9 Bell Ave. S. of Park *	5.7	27 Rosecrans Medians @ Pine		1.1
10 Dorsey Field *	5.7	28 Sports Park		12.9
11 Live Oak Park *	1.6	29 Valley/Ardmore Greenbelt @ 15Th St.		1.8
12 Manhattan Studios	13.7	30 Valley/Ardmore Greenbelt @ 19Th St. *		12.5
13 Manhattan Village Park	2.7	31 Valley/Ardmore Greenbelt @ 2nd		9.3
14 Mar Brad Middle School - La Marina Field	13.2	32 Valley/Ardmore Greenbelt @ 8Th St.		3.7
15 Marine & Herrin Median	1.1	33 Valley/Ardmore Greenbelt @ Ardmore *		9.8
16 Marine & Sepulveda Median *	0.3	34 Valley/Ardmore Greenbelt @ M.B.B.S.E.		4.6
17 Marine Avenue Median *	2.7	35 Voorhees Sump		0.1
18 Marine Avenue Park	9.6			
		·	Total	265.0

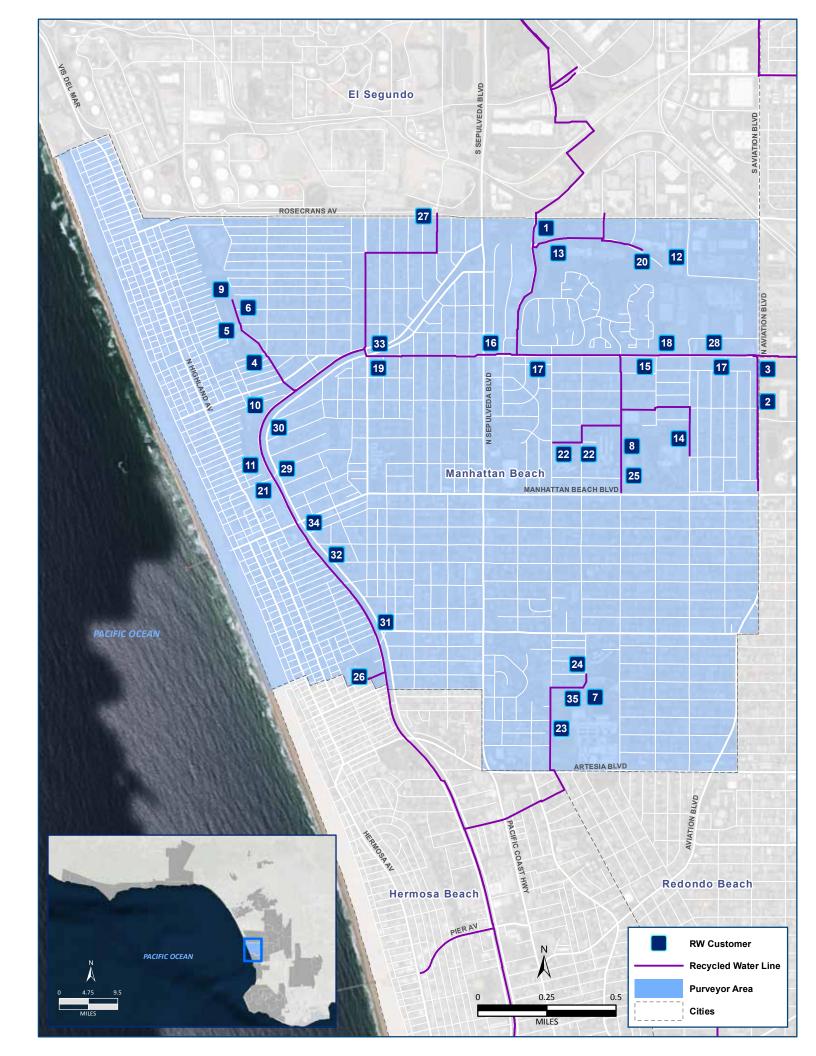
Total

The site map on the next page corresponds to the numbers listed in the table above.

1 Acre-Foot (AF) is equal to 325,851 gallons

<sup>\*</sup> This data reflects the total for multiple meter connections.

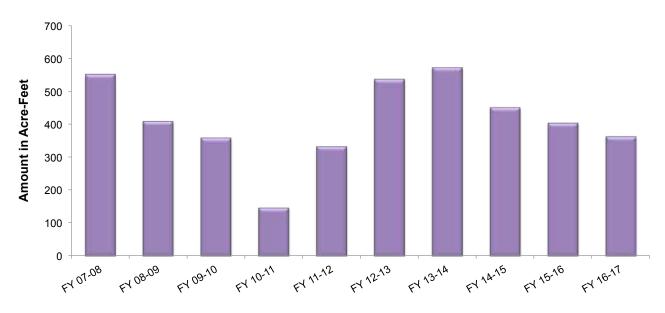
<sup>\*\*</sup> This is a new customer/meter connection for FY 16-17.



# **Golden State Water Company**

1600 W. Redondo Beach Blvd., #101, Gardena, CA 90247

#### FY 2016-17 Recycled Water Sales



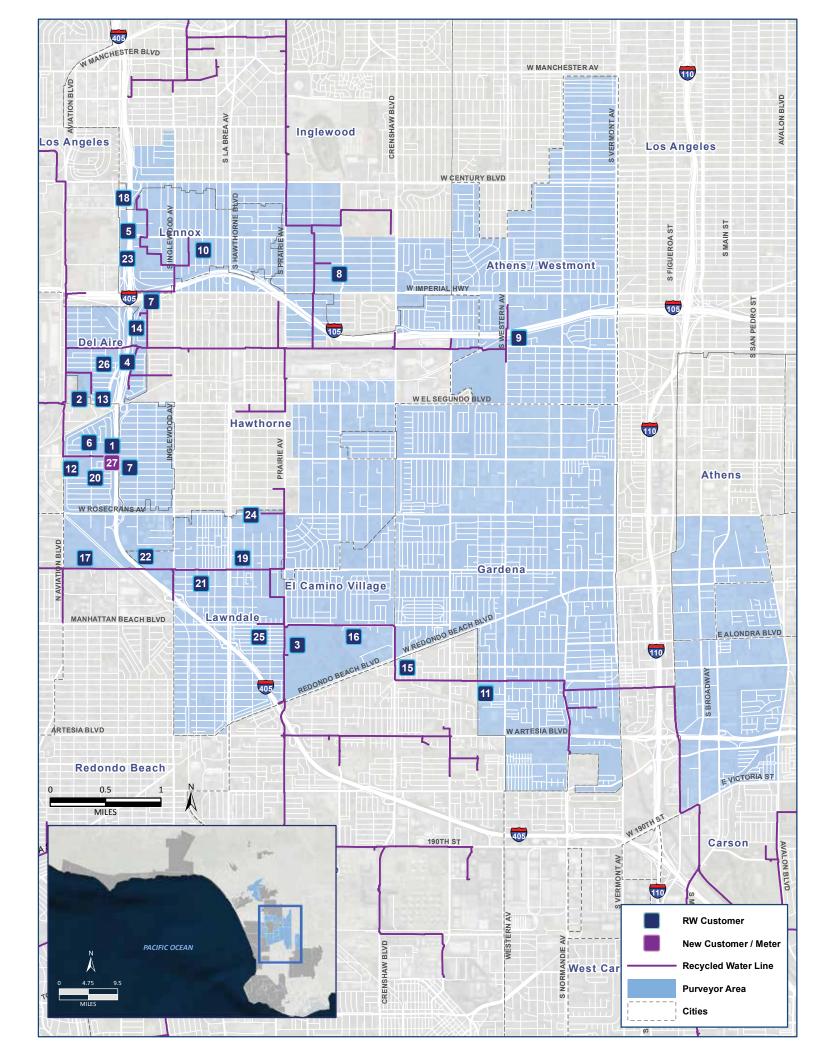
Recycled Water Customer	AF	Recycled Water Customer	AF
1 13500 Glasgow *	10.0	15 Del Taco DT895	0.7
2 Aerospace Corp	4.8	16 El Camino College *	8.9
3 Alondra Park (West) *	16.5	17 Federal Building - Hawthorne	7.7
4 Anza Elementary School *	3.9	18 Felton Elementary School	0.3
5 Buford Elementary School	4.5	19 Hawthorne Blvd/Marine	12.5
6 Cabrillo Elementary School *	6.9	20 Holly Glen Park *	1.4
7 Caltrans *	2.3	21 Jane Addams Park	7.4
8 Center Park *	4.5	22 Lawndale Union High School District	28.6
9 Chester Washington Golf Course *	145.9	23 Lennox Middle School	22.2
10 Condon Park (Lennox Park)	7.0	24 Leuzinger High School	23.0
11 Crenshaw Lumber	0.1	25 Rogers Anderson Park	19.7
12 Dana-Burnett Elementary School	10.3	26 Sepulveda Elementary School	5.5
13 Del Air Park	8.3	27 Wiseburn Walking Trail **	0.0
14 Del Aire Assembly of God *	1.1	-	
		Total	364.0

<sup>\*</sup> This data reflects the total for multiple meter connections.

The site map on the next page corresponds to the numbers listed in the table above.

<sup>\*\*</sup> This is a new customer/meter connection for FY 16-17.

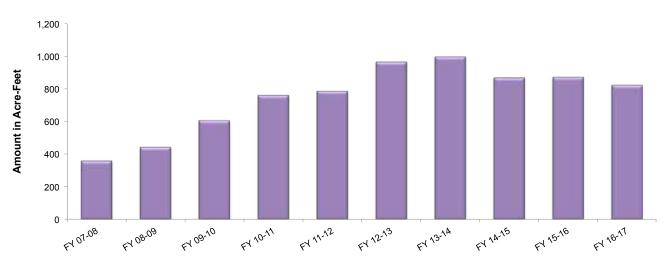
<sup>1</sup> Acre-Foot (AF) is equal to 325,851 gallons



# Los Angeles Department of Water and Power

111 N. Hope St., Los Angeles, CA 90012

## FY 2016-17 Recycled Water Sales

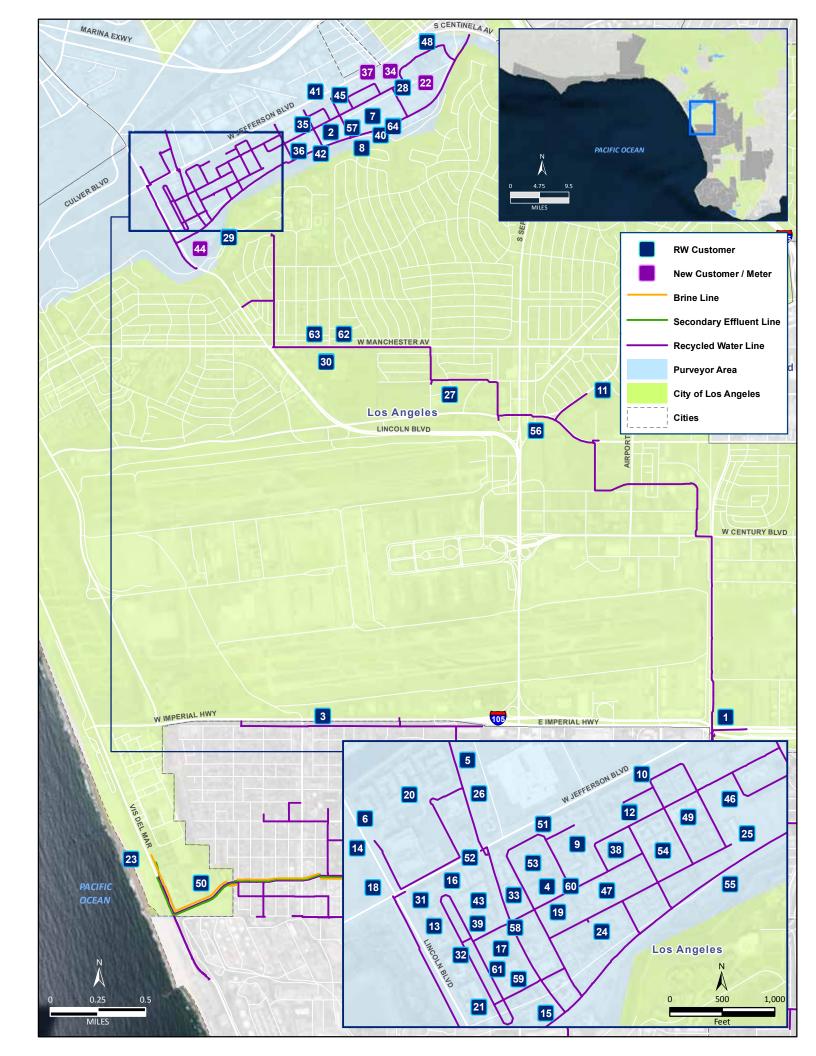


Recycled Water Customer	AF	Recycled Water Customer	AF	Recycled Water Customer	AF
1 11310 Aviation Blvd. *	5.6	23 Hyperion Treatment Plant *	80.8	45 POC #2	2.8
2 12760 W Millennium	1.0	24 JLH Realty Constr *	4.3	46 POC #4	1.7
3 7055 Imperial Hwy - a *	7.9	25 KB Home Coastal *	1.5	47 Promenade at Playa	1.7
4 Avalon Maintenance	0.7	26 LA City Bureau Pub Bldgs *	0.8	48 PV Campus Parcel 3 *	16.6
5 Bridgeway Mills HOA *	5.1	27 LAX *	116.8	49 Runway Lofts Venture LLC	0.9
6 CAL TRANS	0.0	28 Lincoln ASB - Playa Vista *	1.2	50 Scattergood *	0.5
7 Campus at Playa -A *	7.1	29 Loyola Marymount University *	125.7	51 Serenade Community Assoc.	5.1
8 Campus at Playa Vista	8.3	30 Maintenance - Manchester *	0.2	52 Sunrise Playa Vista Senior	1.6
9 Capri Court HOA *	2.8	31 Metro Condo Assoc.	1.8	53 Tapestry Maint. *	4.4
10 Carabella Community	4.0	32 Off-Crescent	2.0	54 Tempo Comm. Ctr.	0.9
11 Carl Neilson Youth Park *	14.9	33 Paraiso	9.9	55 The Lee Group	1.3
12 Catalina Maintenance Corp.	2.8	34 Park 4-1 **	0.0	56 The Parking Spot	0.5
13 Chatelaine	0.8	35 Park Lot 39	7.0	57 The Ratkovich Company	5.2
14 Coldwell Banker	1.4	36 Park Lot 7	2.6	58 Villa D'Este Corp.	1.1
15 Coronado Maintenance Corp.	8.0	37 Park, Lot 9 **	5.3	59 Villa Savona Maint Corp.	0.5
16 Crescent Park *	4.1	38 PH & L Community *	1.2	60 Warmington PV	0.4
17 Crescent Walk at Playa	1.2	39 Playa Capital Co.*	30.2	61 Waterstone Condo Assoc.	1.2
18 Dreamworks Interactive *	7.5	40 Playa Phase 1	5.9	62 Westchester Golf Course	165.5
19 Esplanade Assoc.	1.4	41 Playa Villas Apt *	4.0	63 Westchester Park *	31.7
20 Essex Property Trust *	7.3	42 Playa Vista	1.2	64 William J. Hoffman-Receiver	4.4
21 Finvest Playa *	8.2	43 Playa Vista Median	0.5		
22 Horizon PH Office Holdings * **	9.7	44 Playa Vista Parks * **	71.5		
				Tota	al 824.7

<sup>\*</sup> This data reflects the total for multiple meter connections. \*\* This is a new customer/meter connection for FY 16-17.

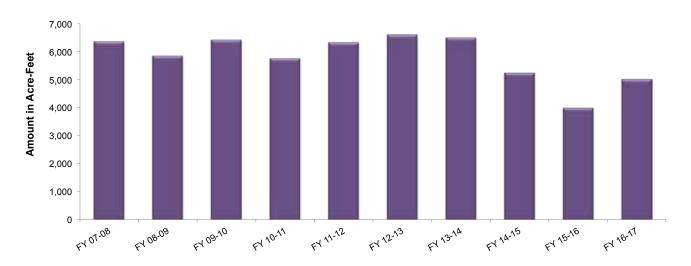
The site map on the next page corresponds to the numbers listed in the table above.

<sup>1</sup> Acre-Foot (AF) is equal to 325,851 gallons



3031 Torrance Blvd., Torrance, CA 90503

### FY 2016-17 Recycled Water Sales



## City of Torrance

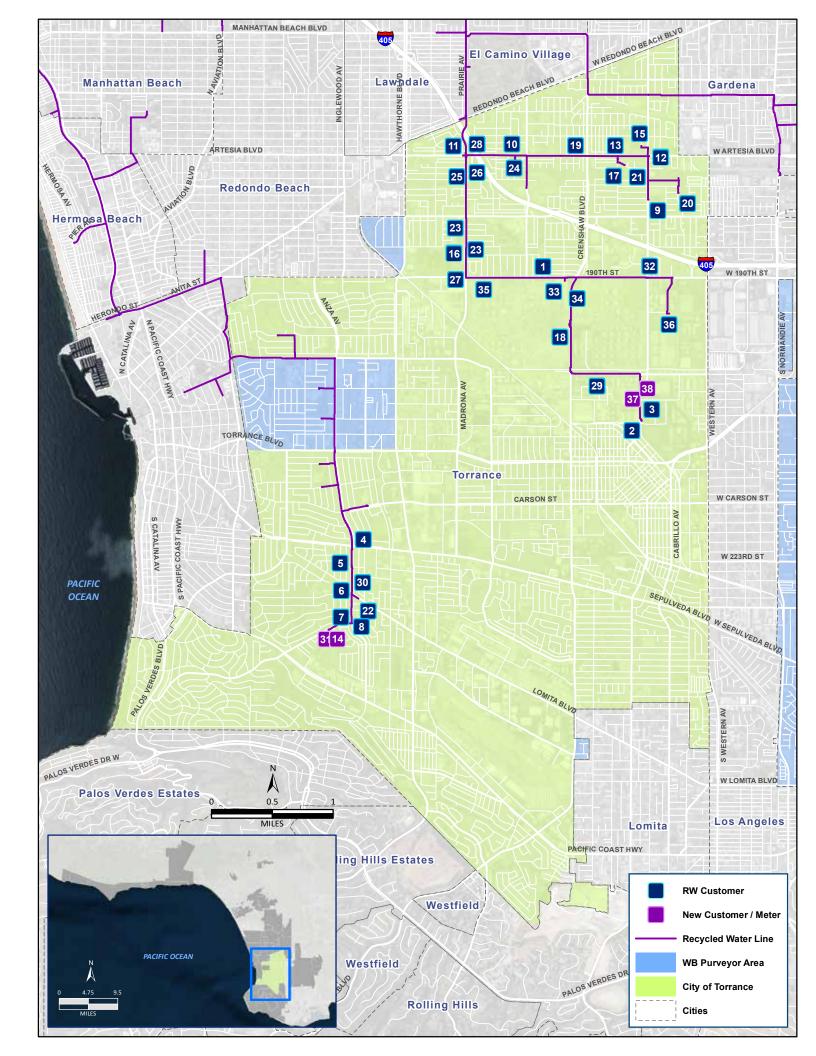
Recycled Water Customer	AF	Recycled Water Customer	AF	Recycled Water Customer		AF
1 190th St. 3403-Median *	0.0	14 Calle Mayor Middle School **	0.0	27 Prairie Ave. @ 190th Street		0.0
2 American Honda-A	51.0	15 Casimir School	4.8	28 Prairie Ave. @ Artesia Blvd.		0.0
3 American Honda-B	10.2	16 Columbia Park *	77.1	29 Pueblo Park		0.8
4 Anza Medians #3	0.4	17 Descanso Park	4.4	30 Seaside Heroes Park		1.4
5 Anza Medians #4 *	0.6	18 Exxon Fire	0.0	31 South High School **		0.0
6 Anza Medians #5	0.0	19 Falda Ave	0.2	32 Torrance Business Center		3.9
7 Anza Medians #6 *	0.1	20 Guenser Park	46.5	33 Torrance Refinery Boiler Feed		1,976.2
8 Anza Medians #7 *	0.0	21 Kobata Growers	6.2	34 Torrance Refinery Cooling Towers		2,748.3
9 Arlington School	6.1	22 La Paloma Park	5.3	35 Torrance Refinery Irrigation *		36.4
10 Artesia Blvd/Kornblum	0.7	23 Magruder Middle School *	7.8	36 Toyota Motor Sales *		41.2
11 Artesia Blvd/Prairie	0.4	24 McMaster Park	5.7	37 Virco Industrial **		0.0
12 Artesia Blvd/Van Ness	0.8	25 Prairie Ave. @ 175th Place	0.0	38 Virco Irrigation **		0.0
13 Artesia Blvd Median	1.2	26 Prairie Ave. @ 175th Street	0.0	-		
				<u> </u>	Total	5037.5

<sup>\*</sup> This data reflects the total for multiple meter connections.

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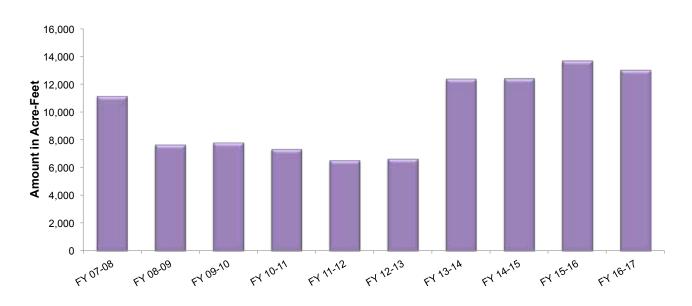
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# Water Replenishment District of Southern California

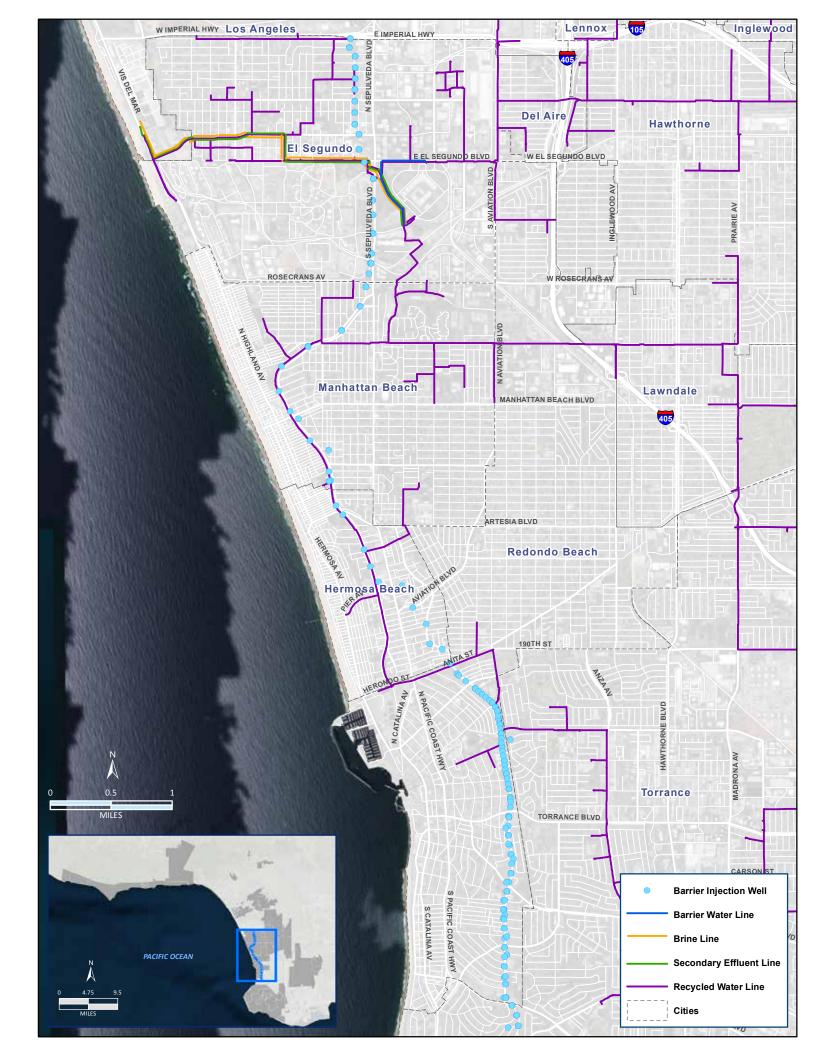
4040 Paramount Blvd., Lakewood, CA 90712

## FY 2016-17 Recycled Water Sales



Recycled Water Use		AF
1 West Coast Barrier		13,014.3
	Total	13,014.3

1 Acre-Foot (AF) is equal to 325,851 gallons





# FY 2017-18 WATER RATES AND CHARGES

Rates Effective July 1, 2017 to December 31, 2017						
Non-Interruptible Retail & Barrier ( <i>Tier 1</i> ) Non-Interruptible Retail & Barrier ( <i>Tier 2</i> )	MWD Commodity \$979/AF \$1,073/AF	MWD RTS \$116/AF \$116/AF	Reliability Svc Charge \$237/AF \$237/AF	Total \$1,332/AF \$1,426/AF		
Rates	Effective January	1, 2018				
Non-Interruptible Retail & Barrier ( <i>Tier 1</i> ) Non-Interruptible Retail & Barrier ( <i>Tier 2</i> )	MWD Commodity \$1,015/AF \$1,101/AF	MWD RTS \$102/AF \$102/AF	Reliability Svc Charge \$237/AF \$237/AF	Total \$1,354/AF \$1,440/AF		

MWD Non-Interru	MWD Non-Interruptible Commodity Rate				
	Effectiv	e Dates			
	<u>1/1/16</u>	<u>1/1/17</u>			
Supply Rate Tier 1	\$201	\$209			
Supply Rate Tier 2	\$295	\$295			
System Access Rate	\$289	\$299			
Water Stewardship Rate	\$52	\$55			
Treatment Rate	\$313	\$320			
Power Rate	\$124	\$132			
Total Tier 1	\$979	\$1,015			
Total Tier 2	\$1,073	\$1,101			

### **Capacity Charge**

Designated Amount (1)

Effective Jul 1 to Dec 31, 2017

Effective Jan 1, 2018

\$6,600/cfs

\$7,300/cfs

(1) Designated amount is an Agency's highest peak (per cfs) from the past three summer periods (May 1-Sept. 30)

#### **Monthly Water Service Charge**

Effective July 1, 2017

WBMWD Water Service Charge

\$67/cfs (2)

(2) Per cfs as determined by agency's meter capacity

WBMWD Recycled Water Rates Effective July 1, 2017							
Volume WBMWD Outside Service (AF/Month) Service Area Designer Recycled Water Per A							
0-25	\$1,105/AF	\$1,147/AF	West Coast Barrier	\$836/AF			
25-50	\$1,095/AF	\$1,137/AF	Nitrified	\$1,085/AF			
50-100	\$1,085/AF	\$1,127/AF	Low Pressure Boiler Feed	\$1,333/AF			
100-200	\$1,075/AF	\$1,117/AF	High Pressure Boiler Feed	\$1,689/AF			
200+	\$1,065/AF	\$1,107/AF	-	·			

### **CONTACT INFORMATION**

General Number		
General Fax		888-821-6552
General Manager		
Co-General Manager	Shivaji Deshmukh	310-660-6234
Co-General Manager	Fernando Paludi	310-660-6214
DEPARTMENT MANAGERS		
Finance/Billing	Margaret Moggia	310-660-6256
Human Resources	Michelle Green	310-660-6228
Operations / Recycled Water	Christiana Daisy	310-660-6233
Planning / Water Resources	E.J. Caldwell	310-660-6286
Public Information		
Technical Resources	Fric Owens	310-660-6223



