

## City of Daly City

Department of Water and Wastewater

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Websites:

Water Department: [http://www.dalycity.org/city\\_services/depts/wwr/water.htm](http://www.dalycity.org/city_services/depts/wwr/water.htm)

Conservation Info: [http://www.ci.daly-city.ca.us/city\\_services/depts/wwr/water\\_conserve.html](http://www.ci.daly-city.ca.us/city_services/depts/wwr/water_conserve.html)

### Service Area

The City of Daly City Department of Water and Wastewater serves the City of Daly City and some unincorporated portions of San Mateo County.

### System

#### Profile

Area Size	7.4 square miles
Service Population	107,773
Number of Accounts	21,820
Number of SFPUC Connections	11
Connections To SFPUC Mains	Crystal Springs #1 and #2, San Andreas #2, and the Sunset Pipeline
Avg. Day Demand (mgd)	6.70
Avg. Day Purchases From SFPUC (mgd)	3.16
% Demand Met With SFPUC Supplies	47.2%
Maximum Local Water Production (mgd)	4.25
Alternative Supply Sources	Local Groundwater, Recycled Water
Interties With Other Agencies	GVMID, Brisbane, Cal Water, North Coast CWD, and Westborough CWD
Local Storage (mg)	24.58
Days of Storage	3.37 - Length of storage based on loss of all sources of supply. Can meet the 8 hr criteria either separately or by pumping from zones with excess capacity. Well water, normally used supplementally, could meet partial demands in an emergency.

#### Summary

The City of Daly City is supplied by two sources of water: surface water from the SFPUC regional water system, local groundwater from six municipal wells, and a third source, recycled water produced by the North San Mateo County Sanitation District, a subsidiary of the City of Daly City, that provides turf irrigation to three local golf courses, an athletic field and landscape medians.

Daly City is connected to the SFPUC with eleven turnouts off the Crystal Springs #1 and #2, San Andreas #2 and Sunset Pipelines. Additionally, Daly City has emergency intertie supply connections with Guadalupe Valley Municipal Improvement District, Brisbane

Water, California Water Service, North Coast County Water District and Westborough County Water District.

Blending of the SFPUC supply and local groundwater is required because a small portion of the well water exceeds the nitrate MCL. Blending the two supply sources reduces the overall nitrate concentration below the MCL while the well water acts as a buffer for corrosion control.

Daly City entered into a pilot conjunctive use aquifer recharge program in October 2002 with the SFPUC to promote the goal of enhancing regional water resource management. Daly City agreed to accept an increased amount of surplus SFPUC system water at a reduced rate and not pump groundwater from the Westside Basin. This action provided the opportunity to observe the response of the basin from recharge that takes place as a result of the reduction in groundwater pumping.

The Phase One demonstration project continued until November 2003 and assessed the feasibility of a proposed program to increase groundwater levels in the Westside Basin, reduce the potential for seawater intrusion, develop increased SFPUC system yield from the overall surface and groundwater system, and potentially improve conditions at Lake Merced. Initial results from the project showed that groundwater levels increased within the basin. The second phase of the aquifer recharge study began in March 2004 and continued until May 2007. A third phase began May 15, 2009. Currently Daly City and the SFPUC are developing an agreement to implement a long term conjunctive use program based on the analysis of the pilot program.

The City's distribution system includes 12 storage reservoirs, one of which is owned by a private entity, with a combined capacity of 24.58 million gallons that could, in an emergency, supply the annual average daily demand for just over 3.37 days. All reservoirs contain a mixture of SFPUC and groundwater, with the exception of Reservoirs #8 and #5 which are supplied solely by SFPUC connections. During this fiscal year a two million gallon storage tank was constructed in the Bayshore Area to replace an undersized reservoir to enhance fire flows to the area. The system also contains 18 pumping stations, 23 pressure zones, 2 regulating control valves, 41 pressure-reducing valves, 21 pressure relief valves, 185 miles of main and 1,468 fire hydrants.

Daly City's Tertiary Recycled Water Facility (through its subsidiary, the North San Mateo County Sanitation District) began delivering full Title 22 compliant public contact irrigation water in August 2004 to the Olympic Club. Soon after, water deliveries included the Lake Merced Golf Club and Daly City's Westlake Park. During the 2005 irrigation season, deliveries included the San Francisco Golf Club. A study was conducted to examine the feasibility of adding service to Harding Park Golf Course. The study indicated the project was feasible, and construction is currently underway and is anticipated to be complete by April 2012.

Since its initiation, some 1,465,429 ccf have been delivered for irrigation use, lessening the demand on local groundwater, and to a small degree, offsetting SFPUC system water.

## Water Supply and Demand

Supply by Source	Actual FY 06-07 (ccf)	Actual FY 07-08 (ccf)	Actual FY 08-09 (ccf)	Actual FY 09-10 (ccf)
San Francisco Water	1,747,221	2,187,273	2,113,320	1,542,719
SFPUC Supplemental Water	1,160,313	0	165,750	904,856
City of Brisbane - SFPUC	4,453	0	0	0
Local Groundwater	572,765	1,540,336	1,268,714	819,239
Recycled Water	5,842	7,754	5,294	4,064
Other (Transfer to North Coast)	0	-3,944	522	0
<b>Total</b>	<b>3,490,594</b>	<b>3,731,419</b>	<b>3,553,600</b>	<b>3,270,878</b>
<b>mgd equivalent</b>	<b>7.15</b>	<b>7.65</b>	<b>7.28</b>	<b>6.70</b>

Recycled water reflected in this table shows the amount of recycled water that offsets SFPUC water. For example, total recycled water distributed in 08/09 equals 244,492 ccf.

### Demand by Sector

Residential	2,716,710	2,671,556	2,613,408	2,460,632
Commercial/Industrial	392,638	385,406	379,068	412,073
Other	263,937	269,169	254,907	154,113
Unaccounted for	117,309	405,288	306,217	244,060
<b>Total</b>	<b>3,490,594</b>	<b>3,731,419</b>	<b>3,553,600</b>	<b>3,270,878</b>
<b>mgd equivalent</b>	<b>7.15</b>	<b>7.65</b>	<b>7.28</b>	<b>6.70</b>

Per Capita Use	Actual FY 06-07 (gpcpd)	Actual FY 07-08 (gpcpd)	Actual FY 08-09 (gpcpd)	Actual FY 09-10 (gpcpd)
Residential	52	52	50	47
Gross (Less Recycled Water)	67	72	68	62

## Facilities and Distribution

### Storage Reservoirs

Designation	Type	Capacity (gallons)	Designation	Type	Capacity (gallons)
Reservoir 1	Concrete	703,000	Reservoir 5B	Concrete	10,400,000
Reservoir 2	Concrete	2,303,000	Reservoir 6	Concrete	1,495,000
Reservoir 2B	Concrete	2,000,000	Reservoir 6B	Concrete	1,451,000
Reservoir 3	Concrete	978,000	Reservoir 7	Steel	1,487,000
Reservoir 4	Concrete	1,370,000	Reservoir 8	Steel	630,000
Reservoir 5	Concrete	1,481,000	F Bay (Private)	Steel	285,000
			<b>Total</b>		<b>24,583,000</b>

**Wells**

<b>Name</b>	<b>Capacity (gpm)</b>	<b>Status</b>
Westlake	410	Active
Well 4	426	Active
Jeff Well	340	Active
Vale	693	Active
A St.	524	Inactive
JS Well	550	Active
<b>Total</b>	<b>2,943</b>	

**Interties**

<b>Name</b>	<b>No.</b>	<b>Diameter (in.)</b>
GVMID	1	12
Brisbane	2	8, 8
CWS	5	2, 4, 4, 8, 10
North Coast	2	6, 8
Westborough	1	12