

FINAL WATER SAVINGS PROGRESS REPORT DUE TO  
MODIFICATION OF SPRINKLER HEADS WITH “LITTLE VALVES”  
IN MEDIAN STRIP ANAHEIM, CALIFORNIA

**TRIAL NO. 2 – ANAHEIM BLVD.**

TRIAL PERIOD: MAY 22, 2008 – MAY 26, 2009

On May 20, 2008, Mike Leggett, Landscape Inspector for the City of Anaheim, California, arranged for and participated in changing out 28 sprinkler heads in a median strip located on Anaheim Blvd., located approximately one block south of North Street, said median strip about 90 feet in length. There is no turf nor ground cover, only shrubs. There is ample spacing between the shrubs generally no less than 3 feet.

The heads are properly spaced about 11-12 feet apart. The width of the median strip at the widest point is 14 feet. The 28 sprinklers are controlled by one valve and one dedicated controller. The meter providing the water supply is dedicated to only the one valve that waters this strip.

All the sprinklers in this strip are Rain Bird 12” pop-ups (Model No. 1812). Most of the nozzles were 12’ ½ circle Rain Bird nozzles with 2 sidestrips – (15SST), 4 – ¼ circles and one full circle. At the southern end, there were 3 – 8’ VANs.

The pop-up riser stems on all 28 sprinklers were changed out with Valvette Systems’ LittleValve replacement riser stems – Model No. POP1210, which is Valvette’s replacement stem for Rain Bird’s Model No. 1812. The full circle, ½ circle and ¼ circle nozzles were changed to Rain Bird 15’ nozzles except one was changed to a Hunter sidestrip – SS530 and another to a Hunter LCS515. The 2 Rain Bird 15SSTs were changed to Hunter’s SS530. The VANs were changed to Rain Bird 12’ VANs.

The watering schedule prior to conversion was one watering time of 4 minutes each day, 3 days a week. (Monday-Wednesday-Friday) Immediately after conversion, the watering time was lowered to 3 minutes.

The controller is a Hydro Point – ET based, which was detached from its satellite connection in April of 2008.

The controller was pre-programmed to commence a summer watering schedule on July 1<sup>st</sup>, which would have increased the watering days to 5 days weekly. At Mr. Sirkin's suggestion, Mr. Leggett changed the pre-program for summer to 4 days weekly on July 1<sup>st</sup>.

Upon completing the conversion, it was immediately noticeable that all misting and all overspray onto Anaheim Blvd. had been entirely eliminated.

This meter is read by the Water Department around the 22<sup>nd</sup> or 23<sup>rd</sup> of each month hence, trials commenced on the day this meter was read.

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All figures are in HCF (748 gallons)

D = Decrease

I = Increase

Period	This Period's Usage	Usage in Prev. Year's Corresponding Period	Difference	Percentage Results
5/22 - 6/23/08	1	6	5	83.3% D
6/23 - 7/23/08	3	9	6	66.7% D
7/23 – 8/21/08	4	9	5	55.6% D
8/21 – 9/23/08	4.2	9.6	5.4	56.7% D
9/23 – 10/21/08	3	7	4	57.1% D
10/21 – 11/20/08	3	2	- 1	50% I
11/20 – 12/23/08	1	1	0	----
12/23 -1/26/09	1	1	0	----
1/26 – 2/25/09	0	1	1	----
2/25 – 3/26/09 29 days	1 22.44/day	3 74.8/day	2 52.36/day	70% D
3/26 – 4/24/09 29 days	2 52.36/day	3 74.8/day	1 22.44/day	30% D

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Period	This Period's Usage	Usage in Prev. Year's Corresponding Period	Difference	Percentage Results
4/24 – 5/26/09 32 days	2 <u>44.88/day</u>	3 <u>74.8/day</u>	1 29.92/day	40% D
TOTALS:	25.2 HCF = 18,850 gallons	54.6 HCF = 40,841 gallons	=	A Decrease of <b>21,991 gallons</b> of water

Net result: **Year over Year Water Savings of 54.0%**