

FINAL WATER SAVINGS YEAR-END REPORT DUE TO
MODIFICATION OF SPRINKLER HEADS WITH “LITTLE VALVES”
IN MEDIAN STRIP, CANOGA PARK, CALIFORNIA

LOS ANGELES TRIAL NO. 1 – LARGE MEDIAN

TRIAL PERIOD: OCTOBER 15, 2008 – OCTOBER 15, 2009

In October of 2008, Robert Gutierrez, Dennis Wake and Audrey Netsawang, senior landscape personnel for the Department of Public Works of the City of Los Angeles, California, permitted the changing out of 58 sprinkler heads in a median strip on Sherman Way located approximately one-half block west of DeSoto Avenue, said median strip about 270 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 12 feet apart. The width of the median strip is 13 feet. The 58 sprinklers are controlled by four valves. There is a fifth valve that provides drip operation to the trees. The valves are operated by a dedicated controller. The controller is from Dig Corp. and is solar-operated. The meter providing the water supply is dedicated to only the valves that water this median 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 adjustable nozzles (VANs) at both ends.

The pop-up riser stems on all 58 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 ½ circle nozzles were changed to Rain Bird 15’ and the two end nozzles changed to Rain Bird 18’ VANs.

The watering schedule prior to conversion was one watering time of 8 minutes 3 days a week. (Monday-Wednesday-Thursday) Immediately after conversion, the watering time was lowered to 7 minutes and changed to Monday-Wednesday-Friday.

Upon completing the conversion, it was immediately noticeable that all misting and most of the overspray onto Sherman Way had been eliminated.

Year-End Final Results of

TRIAL NO. 1 – Large Median on Sherman Way, Canoga Park.

TRIAL PERIOD: OCTOBER 15, 2008 – OCTOBER 15, 2009

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 |
|------------------|------------------------------------|--------------------------------------------|------------|------------------------------------------------------|
| 10/15 - 11/15/08 | 7 | 9 | 2 | 22.0% D |
| 11/15 – 12/15/08 | 7.88 | 9.45 | 1.57 | 16.6% D |
| 12/15 – 1/15/09 | 5.18 | 9.18 | 4 | 43.6% D |
| 1/15 – 2/15/09 | 2 | 8 | 6 | 75.0% D |
| 2/15 – 3/15/09 | 3.85 | 8.35 | 4.50 | 56.2% D |
| 3/15 – 4/15/09 | 5 | 8 | 3 | 37.5% D |
| 4/15 – 5/15/09 | 5 | 8 | 3 | 37.5% D |
| 5/15 - 6/15/09 | 5 | 8 | 3 | 37.5% D |
| 6/15 – 7/15/09 | 5.75 | 10.25 | 4.50 | 43.9% D |
| 7/15 – 8/15/09 | 7.50 | 10.50 | 3 | 28.6% D |
| 8/15 – 9/15/09 | 7.35 | 11.35 | 4 | 35.2% D |
| 9/15 – 10/15/09 | <u>7.90</u> | <u>11.50</u> | 3.6 | 36.4% D |
| TOTALS: | 69.41 HCF = 51,918.7 gallons | 111.58 HCF = 83,461.8 gallons | = | A Decrease of 31,543.1 gallons of water |

Net result: **Year over Year Water Savings of 37.8%**