

WATER SAVINGS PROGRESS REPORT DUE TO MODIFICATION OF  
SPRINKLERS HEADS WITH “LITTLEVALVES” IN INDUSTRIAL BUILDING  
LANDSCAPING AT 26901 AGOURA ROAD, CALABASAS, CA.

The subject building is located on Agoura Road just south of the 101 Freeway in the City of Calabasas, California. It is an industrial building with landscaping that is watered with 23 valves. The building is managed by Mid-Valley Properties. The LittleValve change-out took place during the first part of November, 2008. That work was performed by Midwest Landscaping, Long Beach. Shortly after the change-out, the landscape maintenance was taken over by Specialized Landscape Management Services, Inc. (SLM)

The water for the landscape irrigation is reclaimed and is provided by Las Virgines Municipal Water District. The reclaimed water meter number is ‘EUNIT9’. The water meter is read on a bi-monthly basis.

The billing period in effect after installation ended on 12/30/08. The usage for that entire period, 61 days, was 208 HCF, which equals 3.41 HCF/day. For the prior year’s comparable period, which ended 12/27/07, 57 days, the usage was 298 HCF or 5.28 HCF/day. Therefore, this year/year water savings for the same period compared to last year’s was **35.6%**. It should be noted that the first 3 weeks of November, 2008, experienced higher than normal temperatures.

The first full bi-monthly period since change-out ended on 2/26/09. The usage for the period, 58 days, was 132 HCF or 2.28 HCF/day. For the previous year’s comparable period, which ended 2/28/08, 63 days, the usage was 338 HCF or 5.37 HCF/day. Therefore, the year/year water savings for this January-February period compared to the same period last year was **57.5%**. This period’s usage for 2009 was **134,056 gallons** less than what was used in the same period last year.

Update: April 28, 2009

The usage for this period, 61 days, was 265 HCF or 4.34 HCF/day. For the previous year’s comparable period, which ended 4/30/08, 62 days, the usage was 344 HCF or 5.55 HCF/day. Therefore, the year/year water savings for this March-April period compared to the same period last year was **22.0%**. This period’s usage for 2009 was **55,210 gallons** less than what was used in the same period last year.

Two items of interest:

1) Southern California experienced a record-setting heat wave in the first part of April. Hot spots in the turf started appearing, which required opening up the LittleValves to allow the spray pattern to cover a larger area. Doing this, of course necessarily causes an increase in water consumption. The turf watering times are presently twice daily for 3 minutes at each watering, 4 days weekly. Now that the turf areas have been restored back to their normally lush appearance, the watering days will be reduced to 3 days weekly on June 5<sup>th</sup>.

2) This year, a portable car wash operation has commenced on the property. The washing takes place once weekly and pulls its water from the irrigation supply lines. Naturally, this affects the water usage bottom line when comparing this year's usage against last year's when car washing did not take place. Building management is considering asking the car wash operator to provide an inexpensive in-line flow meter to his hose apparatus so that the water used by the car washing operation can be measured with the result that the actual irrigation water usage can be better defined.

Update: June 26, 2009

The meter was read by the Las Virgines Municipal Water District on June 26<sup>th</sup>. The read was 7259. The April 28<sup>th</sup> read was 6970. This period's usage was 289 HCF. There were 59 days in the period, hence the average daily usage was 4.9 HCF. The comparable period for last year ending June 30, 2008, was a 61-day period using 422 HCF, which resulted in an average daily usage of 6.92 HCF.

Therefore, the year/year water savings for this May-June period compared to the same period last year was **29.20%**. This period's usage for 2009 was **1,511 gallons per day** less than last year's comparable daily average, equating to a total savings of **89,147 gallons** for the 59 days as compared to what was used in the same period last year.

One item of interest:

Around June 5<sup>th</sup>, the Account Manager for the landscape maintenance firm (SLM) noticed a marked increase in water usage. He checked out the clock and his weekly usage figures and it appears that around May 1<sup>st</sup>, someone had changed the lawn watering program from 3 days weekly to 5 days weekly. He immediately changed it back to 3 days weekly. For the 3-week period commencing June 5<sup>th</sup> and ending June 26<sup>th</sup>, the weekly water usage dropped almost 50% from approximately 4100 cu. ft. (30,668 gallons) down to 2,087 cu. ft. (15,611 gallons.)

Update: August 27, 2009

The meter was read by the Las Virgines Municipal Water District on August 27<sup>th</sup>. The read was 7620. The June 26<sup>th</sup> read was 7259. This period's usage was 361 HCF. There were 62 days in the period, hence the average daily usage was 5.82 HCF. The comparable period for last year ending August 28, 2008, was a 59-day period using 557 HCF, which resulted in an average daily usage of 9.44 HCF.

Therefore, the year/year water savings for this July-August period compared to the same period last year was **38.3%**. This period's usage for 2009 was **2,708 gallons per day** less than last year's comparable daily average, equating to a total savings of **167,896 gallons** for the 62 days as compared to what was used in the same period last year.

Presently, watering takes place 4 days weekly with two waterings per day at 3 minutes each.

Update: October 28, 2009

The meter was read by the Las Virgines Municipal Water District on October 28<sup>th</sup>. The read was 8006. The August 27<sup>th</sup> read was 7620. This period's usage was 386 HCF. There were 62 days in the period, hence the average daily usage was 6.23 HCF. The comparable period for last year ending October 30, 2008, was a 63-day period using 581 HCF, which resulted in an average daily usage of 9.22 HCF.

Therefore, the year/year water savings for this September-October period compared to the same period last year was **32.4%**. This period's usage for 2009 was **2,241 gallons per day** less than last year's comparable daily average, equating to a total savings of **138,942 gallons** for the 62 days as compared to what was used in the same period last year.