

## Case Study Template

Please check a box in each category as it applies.

Classification	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Institutional	<input type="checkbox"/> Industrial
Type of Business	<input type="checkbox"/> Hotel/ Motel	<input checked="" type="checkbox"/> School	<input type="checkbox"/> Petrochemical & Chemical
	<input type="checkbox"/> Food Service	<input type="checkbox"/> Hospital	<input type="checkbox"/> Pharmaceutical
	<input type="checkbox"/> Office	<input type="checkbox"/> Medical/Health Care	<input type="checkbox"/> Food and Beverage
	<input type="checkbox"/> Landscape	<input type="checkbox"/> Prison	<input type="checkbox"/> High Tech
	<input type="checkbox"/> Retail	<input type="checkbox"/> Other- Please specify	<input type="checkbox"/> Aerospace & Manufacturing
	<input type="checkbox"/> Other- Please specify		<input type="checkbox"/> Other- Please specify
Other Report Sections	<input type="checkbox"/> Cost Analysis	<input type="checkbox"/> Metrics	<input type="checkbox"/> Other- Please specify
Alternative Source Water	<input type="checkbox"/> Water Recycling - Off Site	<input type="checkbox"/> Water Recycling - On Site	<input type="checkbox"/> Other- Please specify
Recycled Water	<input type="checkbox"/> Municipal		<input type="checkbox"/> Other- Please specify

**Standard Industrial Classification (SIC) or North American Industrial Classification System (NAICS) Code:** 8211

**Type of Business, Name of Business (if available) and General Location:** Brentwood School is a K through 12 school located in West Los Angeles.

**Introductory paragraph:** Alternative Maintenance Services, Inc. is the landscaper at Brentwood School. They felt that the school could save water and money by removing ornamental turf from the campus and replacing that turf with drought tolerant plants, and mulch. Hillsides of tall fescue would be replaced with drought tolerant plants and the irrigation would be cut and capped. A total of 5.9 acres of turf were removed. The project started in June 2010 and final payment was made in June 2011, although plants continue to be added from the on-site nursery.

**Goal and objective or Strategy:** The goal was to save water while maintaining a beautiful landscape. Based on a yearly Evapotranspiration (ET) of 47.9" the project was expected to save a total of 3.19 Acre Feet (AF) per acre per year. The expected yearly savings for the project is 18.8 AF. This is based on saving 80% of the yearly ET.

**Project Description:** The project began by scalping the turf areas to the ground and then covering it with 6 to 8 inches of mulch. They did not use an herbicide to kill the turf. Instead, the lack of sunlight to the ground was enough to keep the turf from growing back. All irrigation was cut and capped. Irrigation for the new plants would be done manually as needed. The campus has a moderate climate because it is on the west side of Los Angeles near the ocean.

**Process modifications:** Not Applicable

**Recycled Water Use:** No recycled water is used on site.

**Best Management Practices Used:**

1. Hand watering when needed reduces water loss
2. Drought tolerant plants and trees require much less water than turf.
3. Mulching decreases evaporation.

**Water Savings Results:** The campus has reduced their water use by over 35% from the 5 year average prior to the project. Please note that 2007 consumption was high and 2006 was low due to one meter not being billed for over 1 year. The project saved 18.2 Acre Feet of Water in 2010, just short of the goal. The current use indicates the school will save over 19 AF this year and that will only improve as the

plants become established. The campus still maintains a football field, two softball fields and a soccer field of turf.

**Other Benefits:** The campus is a drought tolerant garden with flora from California, Australia, South Africa, and other Mediterranean climates. Students and visitors are constantly educated on the benefits of having such a landscape and on being an environmental steward.

**Project contact person:** Jerry Budnick, Alternative Maintenance Company (310) 472-2919, Enrique Silva, LADWP (213) 367-0893

**Publications:** none

**Photo:** BEFORE – areas done all around the hillsides around the track



Photos: AFTER



Revision Date: 10/21/11



Total Water Use

Month	HCF						
	2011	2010	2009	2008	2007	2006	2005
December		1,168	1,598	1,376	1,043	611	1,692
November		1,542	1,383	0	0	568	1,632
October	1,652	583	2,553	4,116	4,084	822	0
September	1,849	1,914	2,440	4,516	0	0	2,537
August	2,197	2,086	3,346	795	21,495	5,189	7,031
July	1,429	1,627	3,670	4,391	725	2,656	2,810
June	1,543	1,828	641	819	741	2,515	2,102
May	1,358	984	2,076	3,278	705	919	2,009
April	765	2,046	1,694	731	632	548	883
March	552	369	1,401	438	415	1,431	533
February	502	15	517	247	396	1,345	670
January	192	773	394	385	403	1,259	1,136
<b>Grand Total</b>	<b>14,447</b>	<b>14,935</b>	<b>21,713</b>	<b>21,092</b>	<b>30,639</b>	<b>17,863</b>	<b>23,035</b>

average  
prorated^^

2011 Expected HCF Savings	2010 HCF Savings	2005-2009 average yearly usage	Estimated HCF % to be saved 2011	%saved 2010
<b>8,422</b>	<b>7,933</b>	22,868	37%	35%