

Submitted at
7/20/2015 Board Meeting
Item - Oral Communications

Water Savings at
Pacific Grove Golf Links
2008-2010
Prepared by Daniel Gho

These totals are from the actual meters reads / usage reports that I have received from Cal Am water. Meter reads occur in the middle of the month and usually consist of 30 calendar days.

	Gallons Used	Savings from Previous year
January-December 2008	32,907,000	
January-December 2009	28,375,500	4,531,500
January-December 2010	24,077,325	4,298,175
	Total Savings in Two years	8,829,675 gallons
	Approximate Dollar Savings	\$43,647

A water cost increase occurred February of 2010. The increase went from \$3.43 for 750 gallons to \$4.00 for 750 gallons.

These water savings have occurred by implementing different watering techniques, since I took the position at Pacific Grove Golf Links in September 2008. The golf course looks and plays better with these new practices. There has been a significant savings in water usage and funds spent on water due to these reductions.

Our Goal this year is to reduce irrigation by 10 percent from 2010 totals, which we are on pace to achieve. Here are figures from June – July 2010 compared to 2011. The 2011 numbers are from our Central Control Computer not from Meter Reads. They represent actual night time irrigation numbers but do not account for supplemental irrigation or spot watering with a hose. Supplemental and hose irrigation total less then 5% of total irrigation.

June - July 2010	6,375,750 Gallons
June - July 2011	4,262,922 Gallons
Savings of 23%	1,475,253 Gallons

Possible Solutions Regarding Future Water Rationings

The City of Pacific Grove and our Environmental Planner, Sarah Hardgrave, have been working with Monterey Peninsula Water Management District, along with Cal Am water to address future water needs for the City of Pacific Grove. I have spoke with her and Mike Zimmer, Public Works Superintendent, to come up with future solutions regarding irrigation water at Pacific Grove Golf Links. Here are our initial thoughts.

- Work with Cal Am Water and Pebble Beach Corporation to delivery reclaimed water from Forest Lake Reservoir
- Rehabilitate David Avenue Reservoir or use the site to house an above ground tank that can store water from runoff
- Drop multiple cistern tanks in our fifth and sixth fairways to catch spring and ground water that can supplement and add to our existing irrigation system
- Dredge out Crespi Pond making its holding capacity larger to use as supplemental irrigation
- Retrofit and build a pump station and use the old sewage treatment plant tanks for supplemental irrigation on the B9 fairways