

A satellite map of Sanibel Island, Florida, showing the island's coastline, surrounding water, and a small inset map in the top right corner. The island is elongated and tapers to the right, with a dense urban area at the tip. The surrounding water is a mix of light blue and green, indicating varying depths and possibly seagrass beds. The land is a mix of green and brown, suggesting a mix of vegetation and developed areas. A small inset map in the top right corner shows the island's location within a larger geographical context, with a north arrow and a scale bar.

*Island  
Aerification*

*Sanibel Island*

***Our greens were in great shape and now our golf course superintendent ruined them by punching holes all over them. Is this aeration all that important?***

Aeration is an extremely important maintenance practice. Although it results in a temporary disruption of the green, aeration.....

- improves water penetration into the soil
- reduces soil compaction
- stimulates turfgrass root growth for a healthier plant
- helps control thatch build-up
- improves overall growing conditions.

Aeration frequency required depends on many factors.





# *Fairways*







The ultimate in fairway aerification ! What we would like to do!





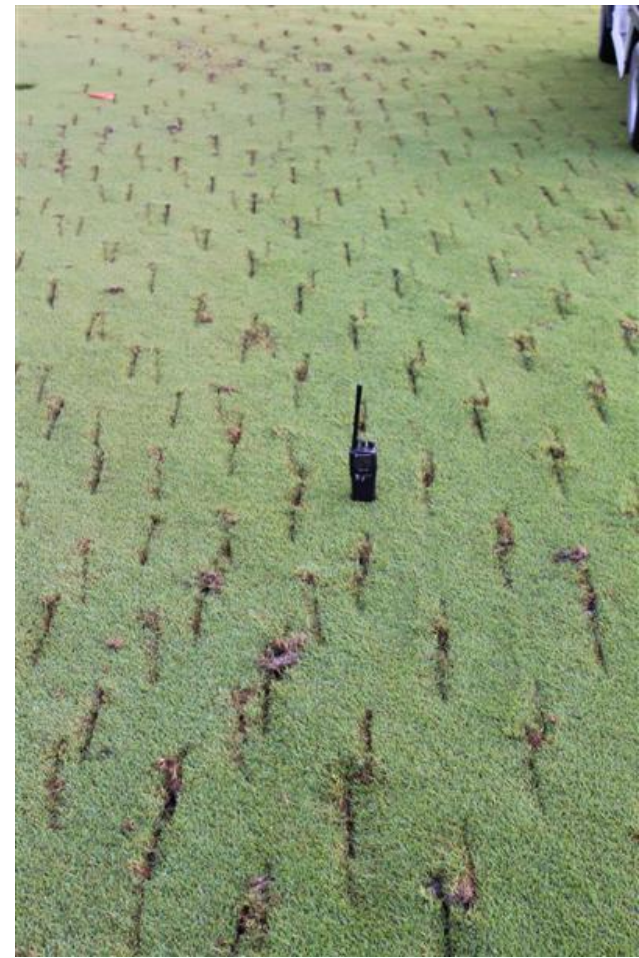
A coastal island can offer some interesting soil conditions.





Multiple  
approaches for  
successful fairway  
aerification.





# Slicing









# Hollow Deep Tine aerification







Hollow or Solid Conventional Fairway Aerification









Aerification as a  
tool to improve  
soil conditions

Incorporating  
Amendments  
or Fertilizer  
Products





Aerify,  
Apply,  
Incorporate





Topdress fairway areas first, even if just selected areas and then aerify and drag.







*Greens*





**Several approaches that all work!**





What are we really trying to do?

How are we effective and economically efficient?





# ISTRC

## International Sports Turf Research Center Aerification Displacement Chart

Tine Size	1.25" x 1.25" Centers	1.5" x 1.5" Centers	2.0" x 2.0" Centers	2.5" x 2.5" Centers	5" x 5" Centers
1/4" Hollow Tines	3.14%	2.18%	1.23%	0.79%	
3/8" Hollow Tines	7.07%	4.91%	2.76%	1.77%	
1/2" Hollow Tines	12.57%	8.73%	4.91%	3.14%	
5/8" Hollow Tines		13.64%	7.67%	4.91%	
5/8" Hollow Vertidrain					1.23%
3/4" Hollow Tines				7.07%	1.77%
3/4" Hollow Vertidrain					1.77%
1" Hollow Tines					3.14%
1" Hollow Vertidrain					3.14%
7/8" Drill & Fill (7" Ctrs)					1.23%
Graden Verticutter (15 Blades @ 1" Spacings)	<u>1mm Blade</u> 3.93%	<u>2mm Blade</u> 7.87%	<u>3mm Blade</u> 11.81%		

Note: 1/4" Quadtines remove as much material as Regular 1/2" Hollow Tines

3/8" minimum for ease of topdressing fill if replacement of material is required

For double aerification make two passes at approx. 37° (slightly less than 45°) to minimize overlap





**Solid**





**Core**





**Core**



# Solid



























**Before**

**After**





## Topdressing Practices



Address problem  
areas on greens  
during aerification.



Apply  
amendments to  
the greens after  
cleaning up the  
cores or with  
solid aerification.  
Make the most of  
the products!

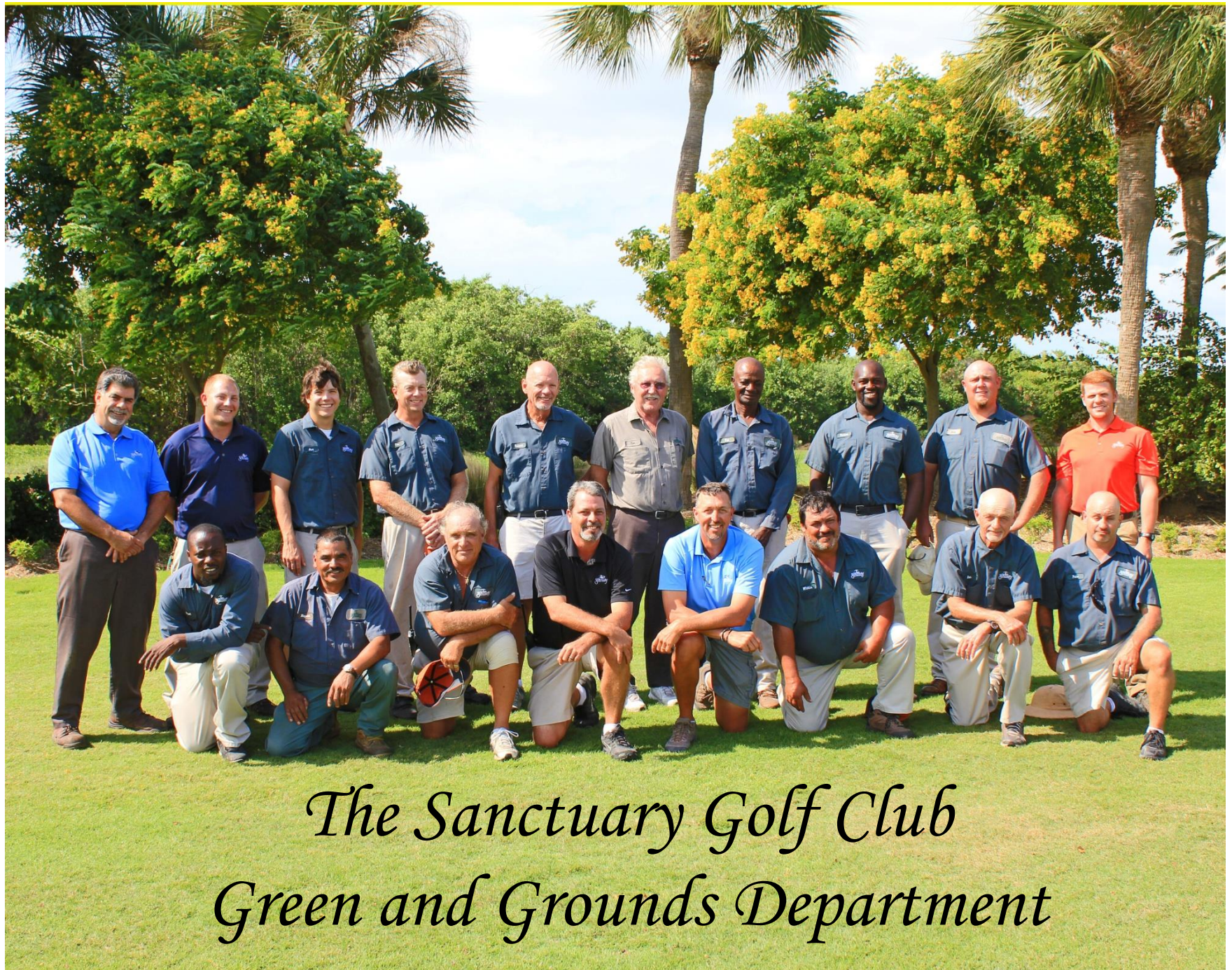






**Following last aerification and start to the winter season**





*The Sanctuary Golf Club  
Green and Grounds Department*