



# SOIL and WATER CONSULTING

Corey M. Angelo  
Consultant

## Green #10 roots



March 24, 2020

Re: Spring visit and Sample Collection

### **Summary of lab data:**

- *On the tees and fairways, there are no real deficiencies except slightly low on Manganese. Sodium levels are high in the tissues but that may be an affect of not growing much right now.*
- *On the greens the consistency is very helpful to you to make decisions. I recommend an application of 0-0-50 to all greens at a rate of 2 pounds of product per 1,000 square feet as soon as possible. Also, 3 pounds of product per 1,000 square feet rate of Pro-Mag. Work on Phosphorus levels through your nitrogen applications.*

Dear Greg,

As I have been writing many reports in the past 2 weeks since my recent west coast trip, they remind me of reports I wrote in 2008 and 2009 when the economy crashed. Golf courses owners and members are concerned. I think CanyonGate will be fine with many recent renovations inside and out and course conditions improving greatly each season! However, I am always very conservative with my recommendations and like to use what I “already have”, so to speak.

I would recommend using the acid injection system- even with the potable water. Maybe you wouldn't need to use it a lot until the Summer, but it will help to lower the bicarbonate and pH in the current water source. On your sand-based greens the sodium build up is of no concern. On the native soils it could be better and using what you “already have” in the acid injection system, would benefit the bermudagrass this Summer.

As you read above, fertility on the tees and fairways is in good shape. Nitrogen was low across all the tests so when the time is right this Spring, you could feel free to add. One thing to remember is that it will probably be an important application now that you don't get any nitrates in the irrigation. I am trying to stress good cultural practices such as verti-cutting and aerification as budgets may be tight going forward.

I have made recommendations for the greens. The picture above, shows the roots we saw on Green #10 during my visit. In order to keep them that depth if possible, the straight sand requires multiple and routine amendment applications.

I hope you and your family are safe and sound at such a tough time. I am here to help and talk through any ideas you may have as you may be asked to cut expenses. When you have time, let's go over the details of the report and catch up on how things are since I was there.

Sincerely,  
Corey Angelo  
Soil and Water Consulting

