



SOIL and WATER CONSULTING

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Consultant

Green's Profile

October 14, 2019

Re: Fall visit and Sample Collection



Summary of lab data:

- *On the tees and fairways even though the data shows no deficiencies in Potassium, I can always make a case for a late Fall 0-0-50 application.*
- *On greens apply 5 pounds of product per 1,000 square feet rate of gypsum, then flush the greens with Empac 7 and follow up within the week with a 2 pounds of product per 1,000 square feet rate of 0-0-50.*

Dear Jake,

We met with your General Manager and discussed increasing aerification and topdressing on the greens. The picture, above, shows a concern I have with the layering under the turf. Not only is it a physical problem that slows water movement, but it also seems to cause a chemistry problem. What I see on these recent samples, is a higher sulfur level as well as a higher than usual sodium level. This will not manifest into an issue on the greens while it is cool, but over time, this trend will aggravate any normal weather and play stresses. One number I noticed on the Saturated Paste Analysis was the SAR. It measures the ratio of Sodium to Calcium and Magnesium to determine the soil flocculation. Soil flocculation improves water's ability to absorb in the soil. The water is not that bad as far as sodium, but when it lands on this layered greens-mix. it piles up and can make the soil impenetrable. When you combine that with the high pH sand and lack of aerification, it can go sideways on you quickly. We discussed things such as the new Ninja tines and even do a demo of the Maredo. You need to pull more cores on the greens as it will not get better without mechanical disruption. Even if the fertility programs you have in place are based on our soil testing, it will not be able to overcome the thatch and layering issue in the greens.

The ryegrass may have been the best I have seen it in quite some time! The August acid injection seems to have increased some mineral availability and enhanced the definition between fairway and rough.

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

