



SOIL AND WATER CONSULTING

Corey M. Angelo
Consultant

848.225.5115

corey@soilandwaterconsulting.com

March 20, 2018

Re: Spring Course Visit

Dear Kent,

You will notice a report that is more concise and focuses on the nutrients that are most important to you growing healthy turf. Also, I made some adjustments to the specific testing that I asked the lab to do on the samples. With higher pH alkaline soils, we need to do an analysis called the Olsen Method. I have done this in the Desert Southwest for almost 10 years. However, one downside to it is that the minor elements have been harder to gauge whether or not they are sufficient because the acceptable ranges are small numbers. For example, manganese levels, for you, are very important with Take- All Patch disease and Fairy Ring being very real concerns. So, I am now using the Melich 3 extraction for the minor elements. We will get more useful minor nutrient readings, I believe because the acceptable ranges are higher numbers. What used to be 1-4 ppm as an acceptable range for Manganese is now 50-80 ppm. I have also added Nitrogen readings to the Soils test so that I can compare them to your Saturated Pastes tests.

With that said, your manganese levels continue to be good throughout the course. However, please apply Manganese Sulfate at a 2 pounds of product per 1,000 square feet rate on the greens and approach areas one time this Spring. The fairway ring that we saw in several approaches can be helped by this. Although I don't know if we can necessarily point towards the sand topdressing program as a reason for why the disease is in those specific areas, it may be a factor. Aerification and treating those areas with the greens fertilizer recommendations will make a difference.

When you aerify the greens in May, apply the following:

4 pounds of product per 1,000 square feet of Poly- K (0-0-50)

3 pounds of product per 1,000 square feet of Pro- Mag

Also, I would like to see the greens sprayed every other week until June 30th with an acid based product. (pHacid, Blast, Liquid Chisel, etc)

With regards to the tees and the fairways, I thought they looked very good! As the bermudagrass begins to spread out this Spring, apply a Nitrogen based fertilizer high in mono ammonium phosphate and sulfate of potash. This will address the current low availability of each. Although magnesium is usually low, I would like to save a Pro-Mag or K-Mag application until after the Summer visit in June.

If you have any further questions about this report and data, we can discuss them as you have time to go over things with me. Thank you.

Sincerely,
Corey Angelo
Owner
Soil and Water Consulting