SOIL and WATER
CONSULTING
Corey M. Angelo
Consultant

August 11, 2020

Re: Summer Sample Collection

Summary of lab data:

- *The tees and fairways have no deficiencies for the Summer season.*
- *Apply 2 pounds of product per 1,000 square feet rate of 0-0-50. (every test is low) Apply 3 pounds of product per 1,000 square feet rate of 11-55-00 at the next aerification. Apply 2 pounds of product per 1,000 square feet rate of manganese sulfate or manganese oxide at the next aerification.*

Dear Nate,

Thank you again for allowing me to come later in the season due to the shutdown-It was 20 days later than last year and 21 days later than 2018. Even though we are still in a good window to compare year over year data, there will be some subtle differences because I sampled when you were in a different stage of Summer work. I hadn't been in California in July since I lived in Las Vegas. So, it was nice to see the courses past transition and in full warm season grass growing. It seemed about average temperatures for you and I saw no heat stress of any kind.

The irrigation water was average for your source with no major fluctuations. The soils were as well. You are typically deficient in Phosphorus and beginning to lean out on Potassium from the March aerification application. You can only let phosphorus go so low before you will see a less vigorous plant. In combination with low Potassium you may begin to see the greens recover slower than you would like.

The one extra sample we collected was from the end of US Open fairway #4. I believe drainage is either slowed to a detrimental level or not working at all. There is also a slight up slope as water might runoff into the pond. So, that area would need some attention to correct the turf conditions. The test results have a very high sulfur level. That is a sure sign of poor drainage as sulfur is a very mobile element in the soil. It has an extremely high sodium level and is a very unbalanced soil. So there is not much going for that area of turf and is due, in my opinion, to poor drainage.

Let's catch up and go over how the course is since I was there when you have time.

Sincerely,
Corey Angelo
Soil and Water Consulting

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