



SOIL and WATER CONSULTING

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Consultant

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Re: Spring Sample Collection

Summary of lab data:

- The fairways would benefit from an application of 0-0-50 at a rate of 200 pounds of product per acre.
 - The greens need applications of Manganese (sulfate or oxide) at a rate of 2 pounds of product per 1,000 square feet monthly.
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Dear Jay,

I'm glad we got to meet up during my recent trip out west. The property is great and has a lot of potential. It was already in good condition, but the soil test results show a couple of things that could be worked on.

Firstly, the non-treated water source samples are typical of desert reclaimed water and are high in sodium and chloride specifically. The acid injection is working to keep the pH and bicarbonate at acceptable levels, but it does nothing to lower the sodium and chloride in the water. So, as you are coming out of Winter and have been watering either based on a percentage of ET or light watering on the greens, sodium has built up and the greens need to be flushed. The soil tests show sodium dominance, and the profile should be "cleaned out". As a rule, the turf would respond better to deep and less frequent irrigation cycles based on these test results.

Secondly, the fairways are in a similar position but of course they cannot be flushed like greens. The Ironwood Course #10 and #12 and Persimmon Course #1 and #10 fairways seem to drain better and don't hold on to the negativity in the water. For example, Ironwood Course fairways #2 and #5 have very high sulfur levels which indicates poor drainage and therefore hold onto the sodium and chloride. You asked me to sample "good" fairways and "bad" fairways. As you look at the data and see the high sulfur levels, that probably corresponds with the poor conditioned fairways.

We should go over the report by phone because I have a couple of questions for you:

- 1) Are both courses irrigation treated or only Persimmon Course?
- 2) Of the fairways we sampled, which are considered the "good" and "bad" fairways? (I could expand on the soils test data when I know. Sometimes high sulfur levels can lead to good color turf but poor soil structure, for example)

If you have any questions, I am available for a phone call when you have time.

Sincerely,
Corey Angelo
Soil and Water Consulting

