

Stewart Creek Golf Course Results Visit

PREPARED BY: Bob Knight, Agriwater.



AgriWater



Agriwater Unit Install
May, 2023



Agriwater Testing
July 29, 2023

On July 29, 2023, Agriwater staff visited the course and met with the course superintendent to review the state of the course and the changes since Agriwater installation in May of this year.

The condition of the fairways and greens reflects Stewart Creek's commitment to both course playability and course esthetics.

Conversation with Sean, Stewart Creek's Director of Agronomy was complimentary to the Agriwater system.

SIGNIFICANT OBSERVATIONS WERE:

- There is no longer any puddling of irrigation water.
- Wetting agents have not been required (one application of wetting agent was done at startup).

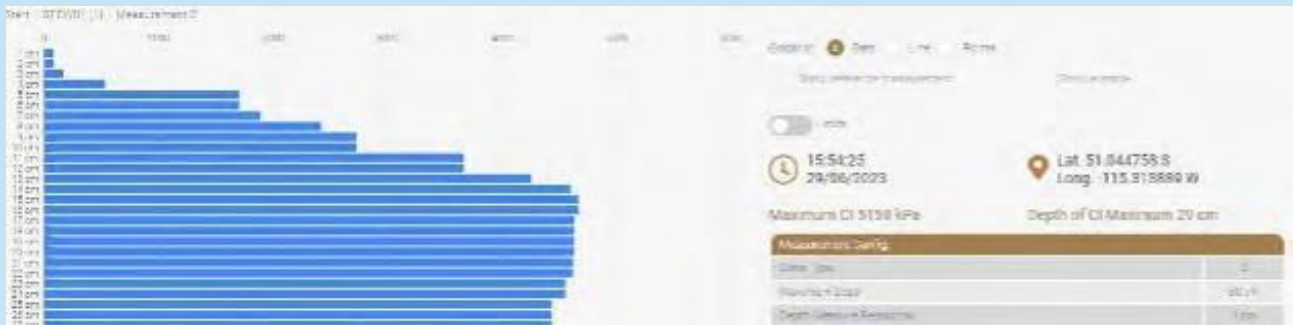
Our visit corresponded with the end of a long duration irrigation cycle and of note was the absence of any pooling or puddling, indicating that the water has been able to penetrate into the soil quickly, and that the water holding capacity has increased.

The fairways were 'springy' and recovered from traffic readily.

This is demonstrable by comparing Penetrometer tests taken in late June and during our visit. Data is from a Falker digital penetrometer.



Test "A" taken **June 29th, 2023**

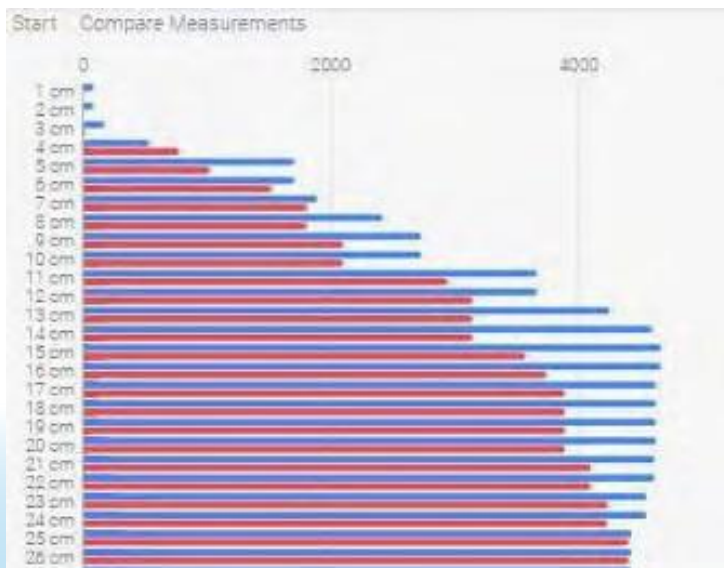


Test "B" taken **July 29th,**



Comparison

■ Measurement A ■ Measurement B



We additionally took another spade sample cut just outside of the irrigated area, and found material differences in root length and depth of water penetration. Underneath the compaction area the soil was very dry and exemplary of a compaction layer stopping the water from penetrating.

Further discussion revolved around the overall health of the turf, the potential for reduced winter kill (due to healthier, deeper root systems) and potential input cost reductions from reduction in wetting agent use and fertilizers, electrical cost reductions. There may be some advantage to being able to get golfers back on the course faster after rains, and a reduction in repair costs in areas which are prone to puddling.