



IRRIGATION WATER



JUMPING BROOK COUNTRY CLUB IRRIGATION WATER QUALITY – AVERAGE COMPARISON

Comparison of Averages: 2016–2020 vs 2021–2026



Visit Date:
May 7, 2026

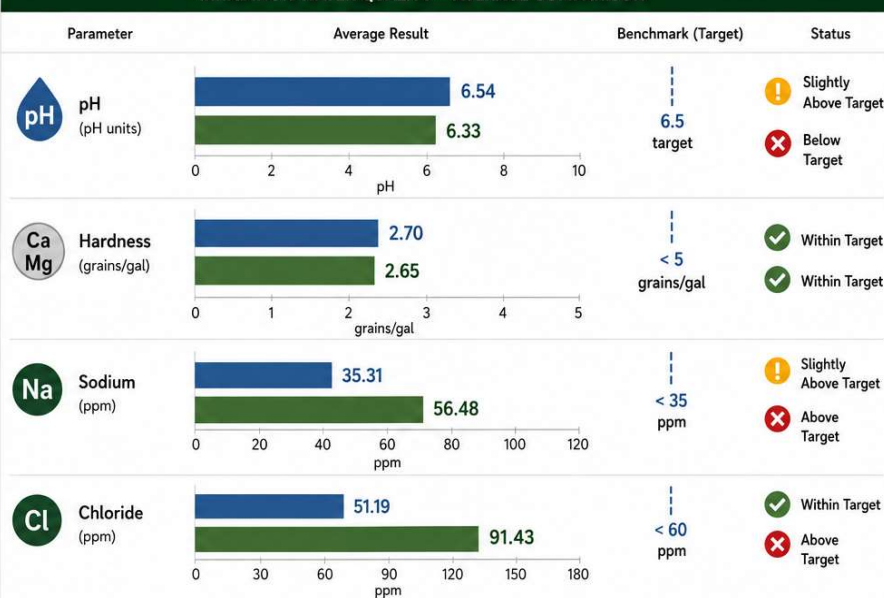
SOURCE DATA – INDIVIDUAL SAMPLES

Date	Source	pH	Hardness (grains/gal)	pHc	Sodium (ppm)	Chloride (ppm)
5/3/2016	Pond	6.26	2.99	9.04	29.05	38.30
5/25/2017	Hole #6	6.50	1.80	8.96	17.21	18.72
4/24/2018	Hole #10	6.82	3.34	8.94	85.81	137.87
4/23/2019	Hole #18	6.65	2.99	8.94	28.71	39.83
5/7/2020	#11	6.47	2.37	9.01	17.77	23.15
5/17/2022	#11	6.40	2.47	9.06	32.57	51.40
5/10/2023	Pond	6.27	1.94	9.23	28.41	42.72
5/15/2024	Pond	6.16	2.63	9.00	47.06	77.44
5/7/2025	Pond	6.86	2.82	9.31	67.03	117.27
5/18/2026	Hole #10	5.96	3.39	9.82	105.34	170.33

LEGEND

- 2016–2020 Average (n = 5 samples)
- 2021–2026 Average (n = 5 samples)

IRRIGATION WATER QUALITY – AVERAGE COMPARISON



SUMMARY

- Average pH decreased slightly from 6.54 to 6.33, moving from slightly above target to below target.
- Average hardness remained stable and within the acceptable range in both periods.
- Average sodium increased from 35.31 ppm to 56.48 ppm.
- Average chloride increased from 51.19 ppm to 91.43 ppm.

BENCHMARKS USED:

pH = 6.5 (target) | Bicarbonate < 120 ppm | Hardness < 5 grains/gal | Sodium < 35 ppm | Chloride < 60 ppm

Note: Averages are calculated from the samples shown in the table.

- This sample was collected at the spot where the pond on #11 drains into the creek on right of #18.
- There is a slight rise in chloride in that spot. Nothing to be concerned with but I will keep an eye on it.
- The water is one step away from rain water.



JUMPING BROOK COUNTRY CLUB



TEES



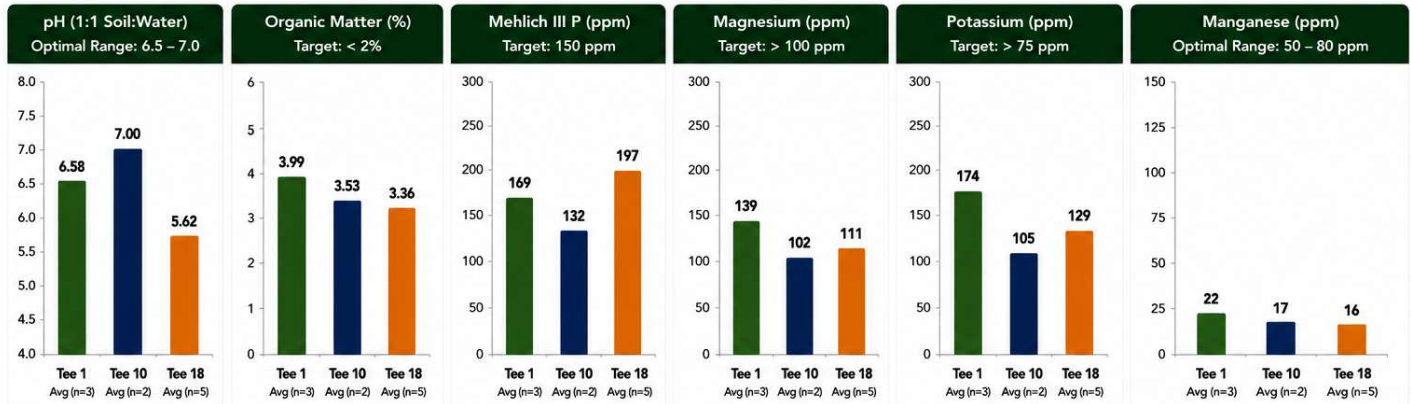
SOIL ANALYSIS SUMMARY

TEE SOIL SAMPLES – ZONE COMPARISON (AVERAGES)

VISIT DATE: May 7, 2026

Course: Jumping Brook Country Club

Feature: Tee



Parameter	Original Range / Target	Tee 1 Average (n=3)	Tee 10 Average (n=2)	Tee 18 Average (n=5)	Highest (Best)	Lowest (Least Desirable)	Comparison
pH (1:1 Soil:Water)	6.5 – 7.0	6.58	7.00	5.62	Tee 10 (7.00)	Tee 18 (5.62)	Tee 1 & 10 In Range; Tee 18 Below
Organic Matter (%)	< 2%	3.99	3.53	3.36	Tee 1 (3.99)	Tee 18 (3.36)	All Above Target
Mehlich III P (ppm)	150 ppm	169	132	197	Tee 18 (197)	Tee 10 (132)	Tee 1 & 18 At/Above; Tee 10 Below
Magnesium (ppm)	> 100 ppm	139	102	111	Tee 1 (139)	Tee 10 (102)	All Above Target
Potassium (ppm)	> 75 ppm	174	105	129	Tee 1 (174)	Tee 10 (105)	All Above Target
Manganese (ppm)	50 – 80 ppm	22	17	16	None In Range	Tee 18 (16)	All Below Optimal Range

Note: Soil test results are from samples collected on the dates shown. Results represent laboratory analysis of the zones sampled.

- This chart shows the averages of the 3 tees over several years. The pH has fluctuated but I believe it is based on the Spring that I sampled. Rain and snow does change how you start the season.
- The tees are in good condition with regards to soil chemistry.
- The OM% is stable but higher than I like to see it. The < 2% guideline is more my experience of what I see on firm tee surfaces.



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FAIRWAYS



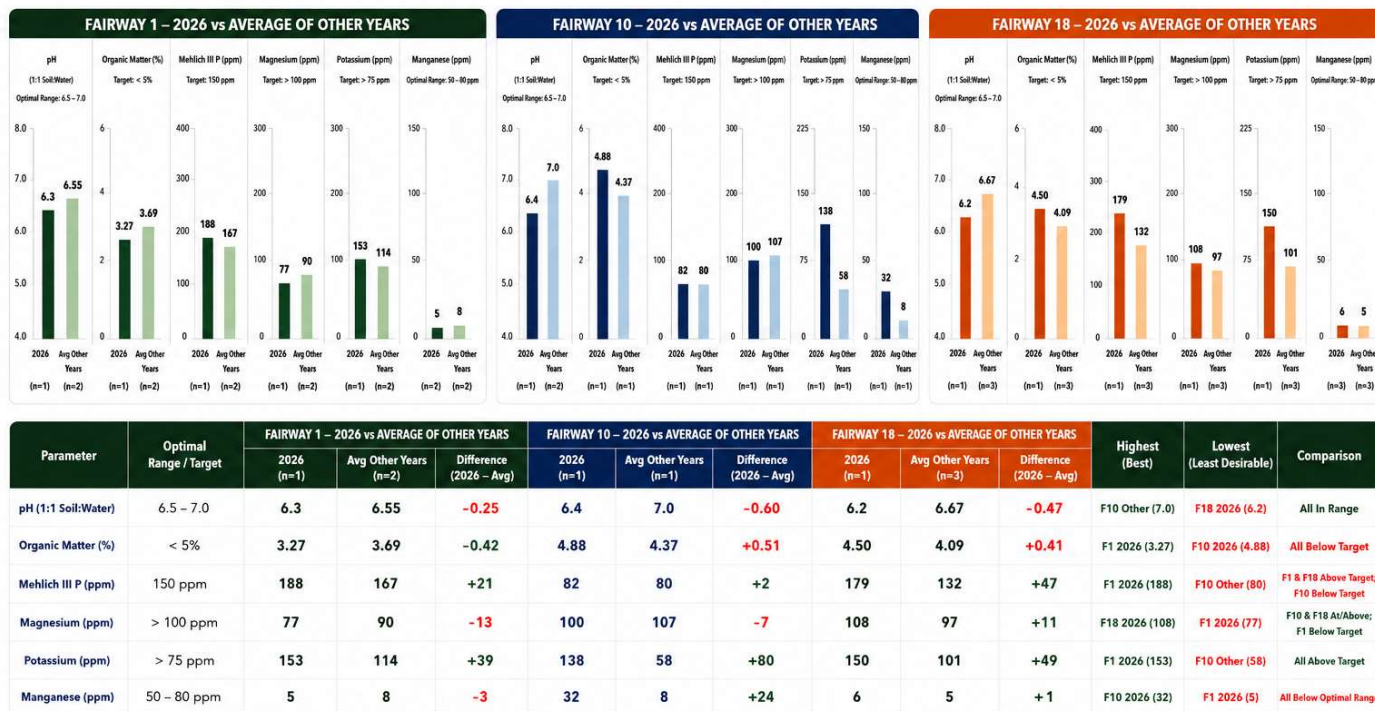
SOIL ANALYSIS SUMMARY

FAIRWAY SOIL SAMPLES – ZONE COMPARISON

VISIT DATE: May 7, 2026

Course: Jumping Brook Country Club

Feature: Fairway



Note: Soil test results are from samples collected on the dates shown. Results represent laboratory analysis of the zones sampled.

- The chart may seem a little “busy” but your course has distinct pockets of soil. For example, I collected #18 only in the top area. If I sample the bentgrass bottom fairway, the numbers would be different.
- Currently, you have been able to keep these 3 holes at a similar pH which will help maintain nutrient availability evenly across these areas.
- Limestone applications to the fairways may be in the next year or so if the trend continues.



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GREENS



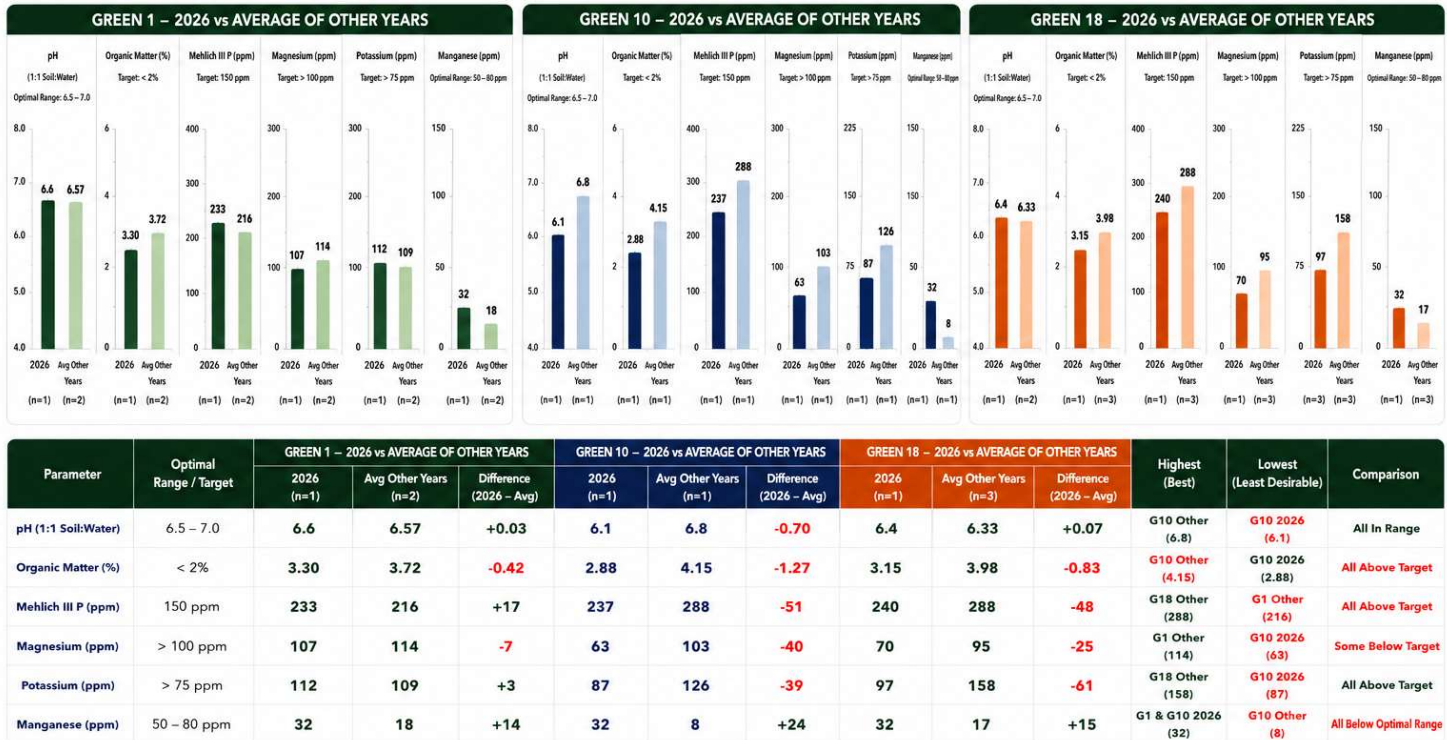
SOIL ANALYSIS SUMMARY

GREEN SOIL SAMPLES – ZONE COMPARISON

VISIT DATE: May 7, 2026

Course: Jumping Brook Country Club

Feature: Green



Note: Soil test results are from samples collected on the dates shown. Results represent laboratory analysis of the zones sampled.

- The best note from this chart is the OM% is lessening. The verti-cutting the previous 2 years is paying off. Continue to dilute the top 2-3" with sand.
- Phosphorus levels remain high.
- Only green #10 needs magnesium. O-O-22 or Pro-mag 36 in one application will be enough.
- Manganese is increasing. Maybe 1 more year of what you have been applying and it can be re-evaluated then.



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ROUGH



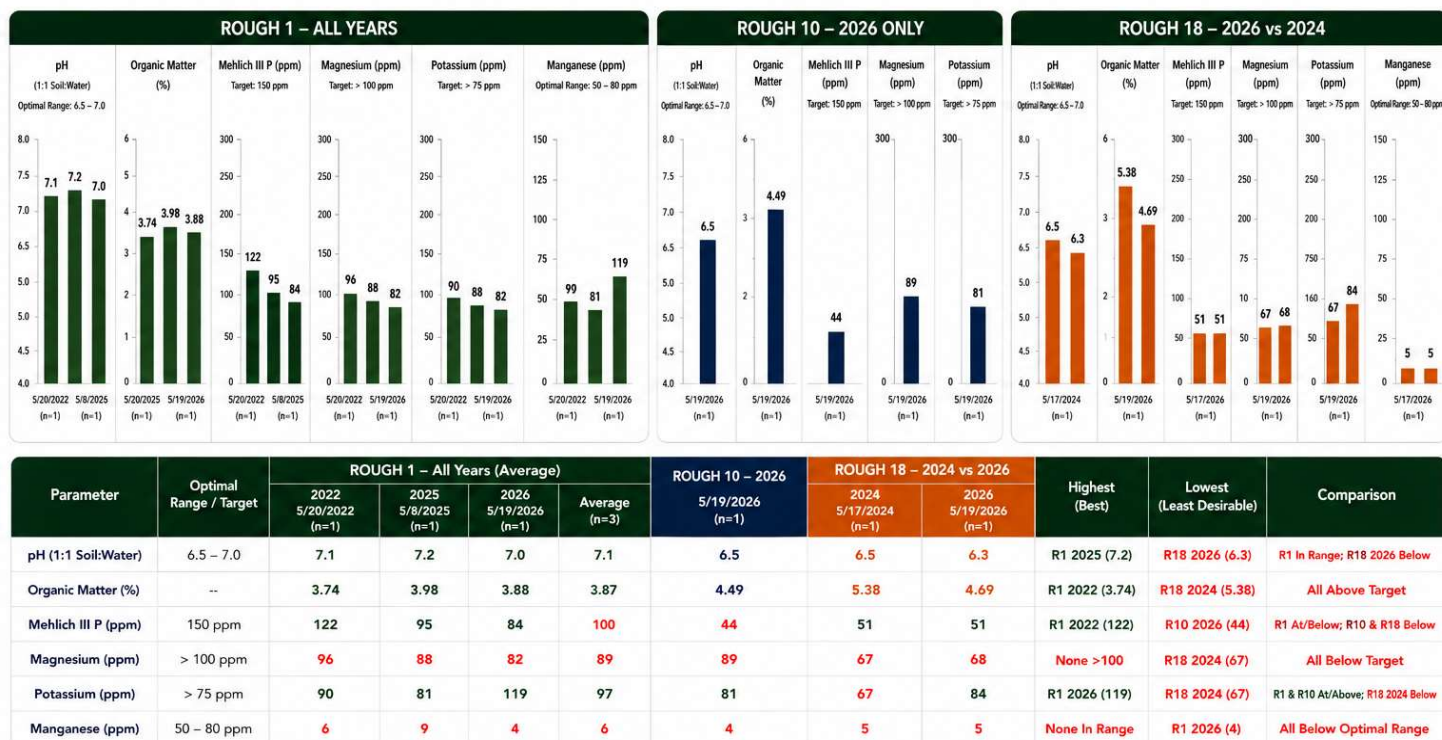
SOIL ANALYSIS SUMMARY

ROUGH SOIL SAMPLES – ZONE COMPARISON

VISIT DATE: May 7, 2026

Course: Jumping Brook Country Club

Feature: Rough



Note: Soil test results are from samples collected on the dates shown. Results represent laboratory analysis of the zones sampled.

- It has been 4 years of collecting data in the rough. The pH is now in range and you can focus on other nutrient deficiencies.
- On holes #10 and #18 an application of dolomitic limestone would adjust the pH and address the needed magnesium.
- Applying an Earthworks containing Phosphorus (either through the poultry manure or enhanced with P) will address the only other deficiencies at this time.



JUMPING BROOK COUNTRY CLUB

SUMMARY

- ❑ Air temperature during the visit was projected to reach **64°F**, while soil temperatures averaged **55°F**, supporting gradual spring recovery and moderate root activity across the property.
- ❑ No. 1 green profile near the planned back expansion showed a relatively clean upper rootzone with limited visible layering and acceptable organic matter accumulation. No. 18 green profile displayed darker lower-profile conditions and greater moisture retention deeper in the rootzone.
- ❑ Green firmness and compaction levels were generally moderate. No. 1 green recorded a compaction reading of **265 at 8 inches** with shear strength at **20**. No. 18 green measured **235** on the compaction meter, with shear strength readings of **18 in stronger areas** and **15 in weaker sections**, indicating variable surface stability.
- ❑ Fairway compaction levels varied significantly between locations. Fairway No. 10 measured **404**, indicating substantially denser soil conditions, while Fairway No. 18 measured **259 at 4 inches**, reflecting more moderate restriction levels.
- ❑ Fairway and rough rooting extended beyond **6 inches**, reflecting healthy rooting depth and generally favorable soil conditions outside greens environments.
- ❑ Continue light venting and controlled moisture management on greens to improve oxygen exchange and strengthen weaker surface areas. Prior to the planned No. 1 green expansion, confirm drainage tie-ins and closely match rootzone materials to maintain long-term consistency in firmness and moisture performance.



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