



IRRIGATION WATER



WATER QUALITY COMPARISON

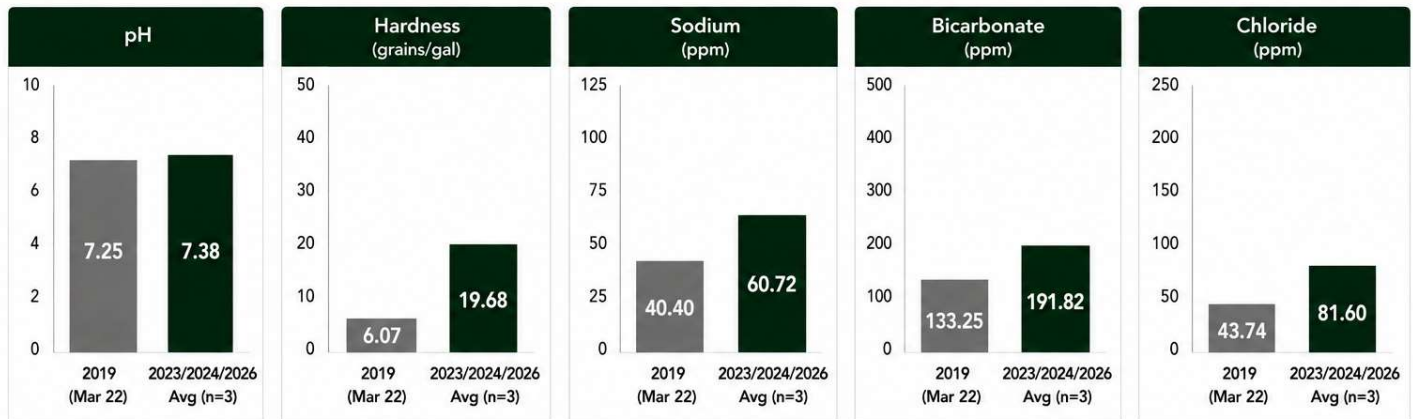
IRRIGATION WATER – 2019 vs 2023/2024/2026 AVG

VISIT DATE: April 16th, 2026

Report Dates Compared:
2019 (Mar 22) vs 2023/2024/2026
Average (Mar 14, 2023; Mar 22, 2024; Apr 29, 2026)

Course:
Los Robles Greens

Sample Type:
Irrigation Water



Parameter	2019 (Mar 22)	2023/2024/2026 Average (n=3)	Change	% Change
pH	7.25	7.38	↑	+1.8%
Hardness (grains/gal)	6.07	19.68	↑	+224.2%
Sodium (ppm)	40.40	60.72	↑	+50.3%
Bicarbonate (ppm)	133.25	191.82	↑	+44.0%
Chloride (ppm)	43.74	81.60	↑	+86.5%

Note: 2023/2024/2026 Average represents the mean of samples from Mar 14, 2023; Mar 22, 2024; and Apr 29, 2026.

- This chart compares an original sample from my first visit to the average of three previous seasons. Your current irrigation blend is much harder than what you used before which will add to the higher bicarbonate level. However, many of the negative parts of irrigation water such as sodium and chloride are not significant enough increases to be concerned with.
- Spending resources to treat the water just to change the bicarbonate level may not be worth the cost.





TEES



SOIL NUTRIENT COMPARISON

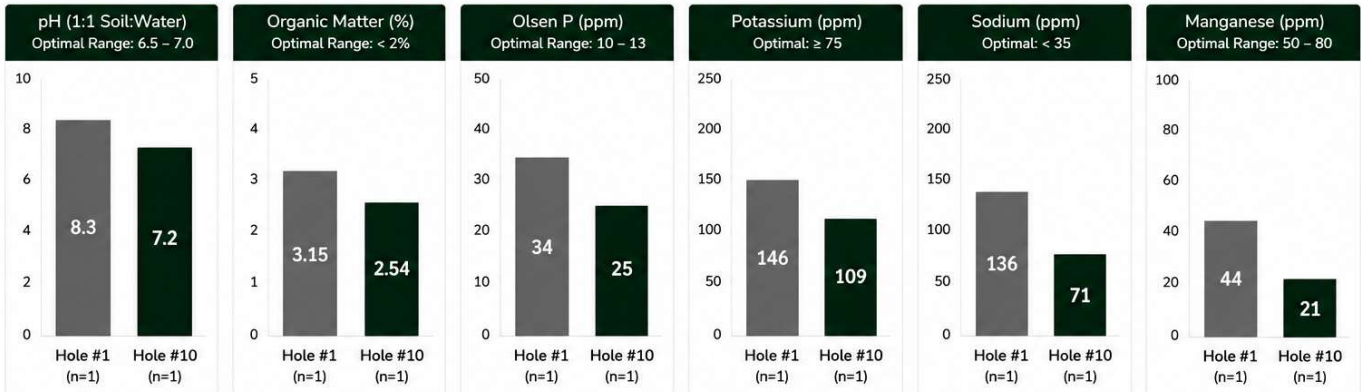
TEE AREAS – HOLE #1 vs HOLE #10

VISIT DATE: April 16th, 2026

Report Date: May 5, 2026

Course:
Los Robles Greens

Feature:
Tee Areas



Parameter	Optimal Range	Hole #1 (n=1)	Hole #10 (n=1)	Difference (Hole #1 - Hole #10)	% Difference
pH (1:1 Soil:Water)	6.5 – 7.0	8.3	7.2	↑ +1.1	+15.3%
Organic Matter (%)	< 2%	3.15	2.54	↑ +0.61	+24.0%
Olsen P (ppm)	10 – 13	34	25	↑ +9	+36.0%
Potassium (ppm)	≥ 75	146	109	↑ +37	+33.9%
Sodium (ppm)	< 35	136	71	↑ +65	+91.5%
Manganese (ppm)	50 – 80	44	21	↑ +23	+109.5%

Note: Only two tee zones sampled on May 5, 2026. No historical data available for comparison.

- For the tees, I'm just comparing hole #1 and #10 that I collected this time. We have a lot of historical data on these two holes, so I wanted to use that information in the other charts on fairways and greens. I think you'll see significant differences between tees based on if they were rebuilt or if you've topdressed, some heavier than others. Your local sands tend to be higher pH.
- There are no nutrient deficiencies at this time.





FAIRWAYS



SOIL NUTRIENT COMPARISON

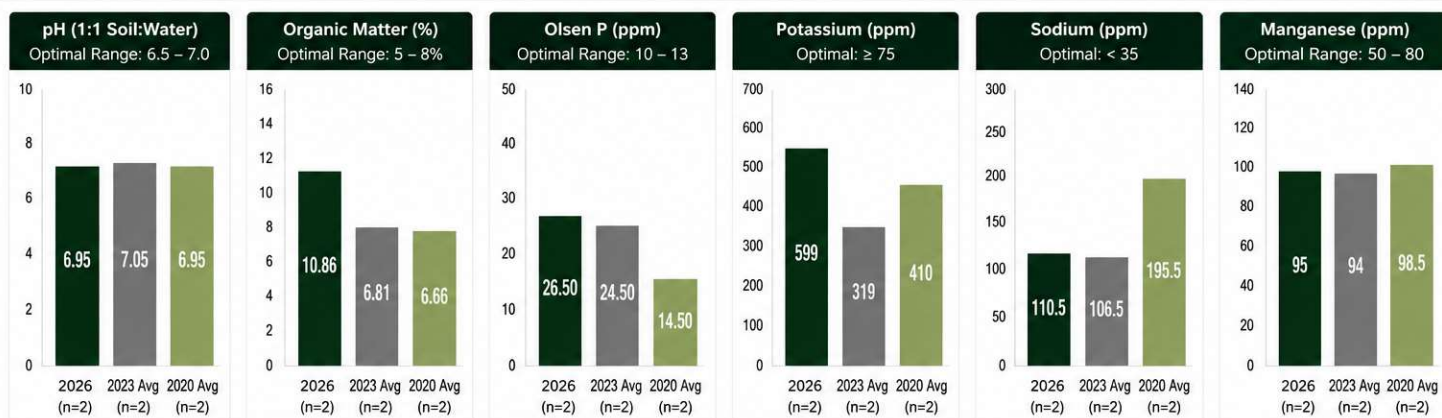
FAIRWAY AREAS – 2026 vs 2023 & 2020 AVERAGES

VISIT DATE: April 16th, 2026

Report Date: May 5, 2026

Course:
Los Robles Greens

Feature:
Fairway Areas



Parameter	Optimal Range	2026 Average (n=2)	2023 Average (n=2)	2020 Average (n=2)	Change vs 2023 Avg		Change vs 2020 Avg	
					Difference	% Change	Difference	% Change
pH (1:1 Soil:Water)	6.5 – 7.0	6.95	7.05	6.95	↓ -0.10	-1.4%	—	0.0%
Organic Matter (%)	5 – 8%	10.86	6.81	6.66	↓ -4.05	-59.5%	↓ -4.20	-63.1%
Olsen P (ppm)	10 – 13	26.50	24.50	14.50	↓ -2.00	-8.2%	↓ -12.00	-82.8%
Potassium (ppm)	≥ 75	509	319	410	↓ -190	-59.6%	↓ -99	-24.1%
Sodium (ppm)	< 35	110.5	106.5	195.5	↓ -4.0	-3.8%	↓ -85.0	-43.5%
Manganese (ppm)	50 – 80	95	94	98.5	↓ -1	-1.1%	↓ -3.5	-3.6%

Note: 2023 and 2020 values are averages of two fairway zones (Hole #1 and Hole #10).

- The biggest change in the soil on these fairways is the OM%. With Kikuyugrass, it is not unusual to have very playable and healthy fairways (like yours) upwards of 10%. I believe this grass almost “makes its own” soil and OM can increase rapidly.
- Consider additional aerifications on the fairways.
- I would remove P and K from any granular fertilizers for now. There is no value in adding more than you have now.





GREENS



SOIL NUTRIENT COMPARISON

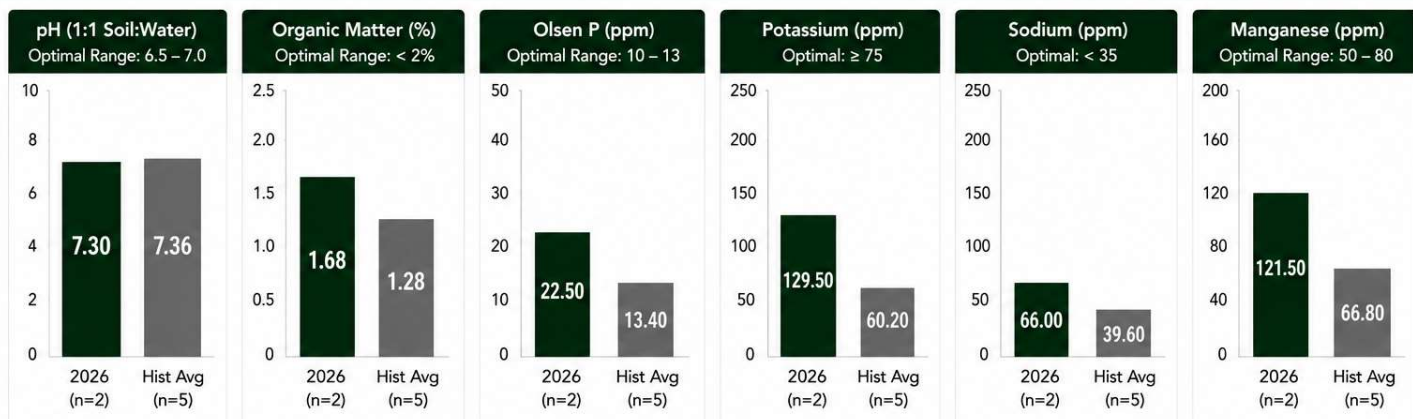
GREEN AREAS – 2026 vs HISTORICAL AVERAGES

VISIT DATE: April 16th, 2026

Report Date: May 5, 2026

Course:
Los Robles Greens

Feature:
Green Areas



Parameter	Optimal Range	2026 Average (n=2)	Historical Average (2020, 2022, 2023) (n=5)	Change vs Historical Avg	
				Difference	% Change
pH (1:1 Soil:Water)	6.5 – 7.0	7.30	7.36	↓ -0.06	-0.8%
Organic Matter (%)	< 2%	1.68	1.28	↑ +0.40	+31.5%
Olsen P (ppm)	10 – 13	22.50	13.40	↑ +9.10	+67.9%
Potassium (ppm)	≥ 75	129.50	60.20	↑ +69.30	+115.1%
Sodium (ppm)	< 35	66.00	39.60	↑ +26.40	+66.7%
Manganese (ppm)	50 – 80	121.50	66.80	↑ +54.70	+81.9%

Note: Historical average includes five samples: 2023 (n=2), 2022 (n=1), and 2020 (n=2) from the same zones (Hole #1 and Hole #10).

- It is great to see the increase in potassium this year! It is at a level that is twice as much as sodium in the soil and that is perfect.
- The OM% has increased by nearly 1/2 of a percent and we should continue to monitor. I would recommend using the USGA 2-4-6 OM analysis again next Spring. I have seen that this way to analyze OM in greens near the surface is excellent. Your OM, based on 2025 testing, is thicker than desired in the 2-6 cm range.
- Continue to focus aerification in the top 3".
- No nutrient deficiencies at this time.





TISSUE ANALYSIS



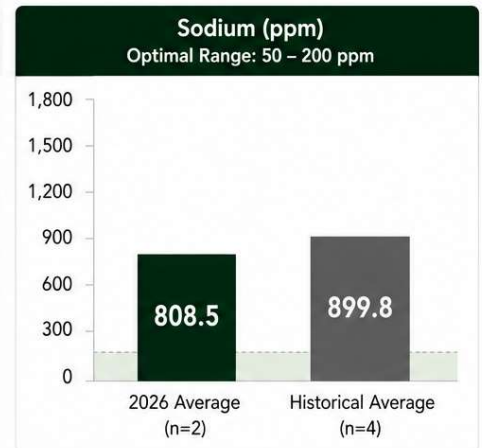
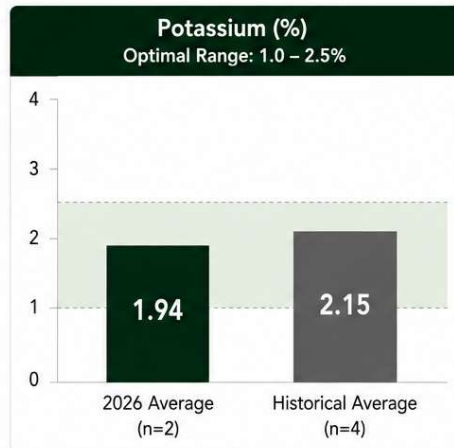
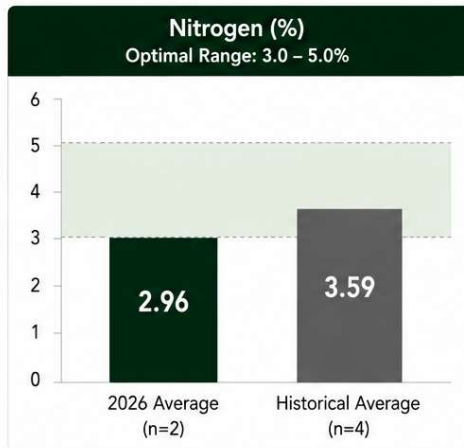
TISSUE ANALYSIS COMPARISON GREENS – 2026 vs HISTORICAL AVERAGES

VISIT DATE: April 16th, 2026

Report Date: April 29, 2026

Course: Los Robles Greens

Sample Type:
Tissue Analysis – Greens



Parameter	Optimal Range	2026 Average (n=2)	Historical Average (n=4)	Change vs Historical Avg	
				Difference	% Change
Nitrogen (%)	3.0 – 5.0%	2.96	3.59	↓ -0.63	-17.5%
Potassium (%)	1.0 – 2.5%	1.94	2.15	↓ -0.21	-9.8%
Sodium (ppm)	50 – 200 ppm	808.5	899.8	↓ -91.3	-10.2%

Note: 2026 Average includes Green #1 and Green #10 sampled on April 29, 2026.

Historical Average includes Green #5 and #14 (May 15, 2025), Green #12 (March 22, 2024), and Green #1 (June 13, 2023).

- It is not completely accurate to compare tissue samples year over year -or even day to day- due to how rapidly results can change. However, I do think you can see seasonal trends based on your usual programs.
- I would remember to factor in any new products or rate changes you may have made this season when deciding what to spray .
- Your nitrogen levels on the greens is on the lower end, but the K levels are very good. Keep that balance.



SUMMARY

- ❑ Air temperature was 70°F and soil temperature was 58°F.
- ❑ A recent application of 44-0-0 fertilizer was made to the longer-cut turf on tees, fairways.
- ❑ Greens were aerified on 3/23 and are healing well.
- ❑ At the time of the visit, the greens were dry but looked good under those conditions. Some hand-watering was being done that day.
- ❑ I don't believe you need to be treating the current irrigation blend. Using acid-based sprays can mitigate the bicarbonates in the soil. Most of the areas on your course have a near neutral pH which doesn't lead me to think you need an acid injection right now.



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