

Product: SmartSoil Hydrogel

Research and Development

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TEST LOCATION: Golf Course

☒ Tee Box ☐ Fairway ☐ Putting Green ☐ Nursery ☐ Rough ☐ HOA

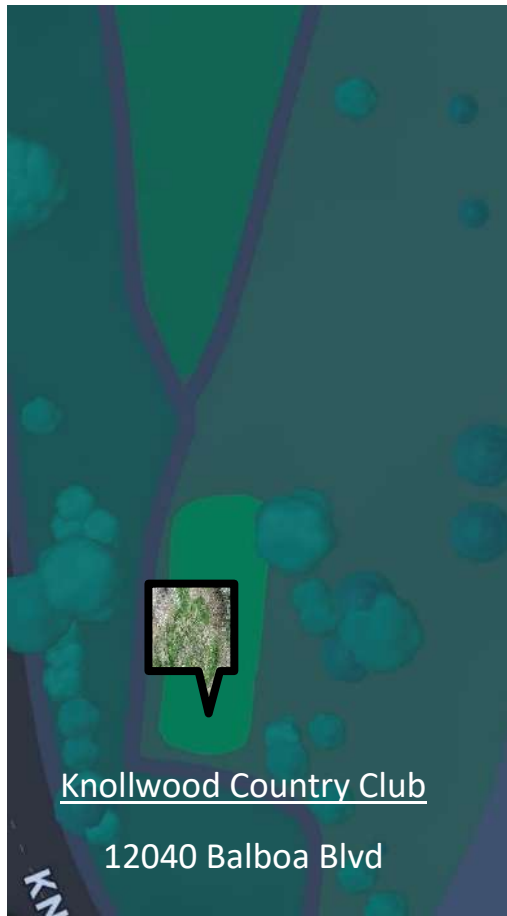
12040 Balboa Blvd,

Granada Hills CA 91344

(323) 497-2033

Curated by: Everardo Felix, Golf Course Superintendent

super@knollwoodgc.com



TEST LOT: 2,000 sq ft (Tee Box)

GRASS/TURF: 419 Bermuda / Bent mix

Irrigation Source: Recycled Water

Install Date: 02/13/2024

SmartSoil Hydrogel: 8.345 lb

(1 sq ft x 0.30 oz hydrogel)

Soil to hydrogel ratio = 100 : 0.19

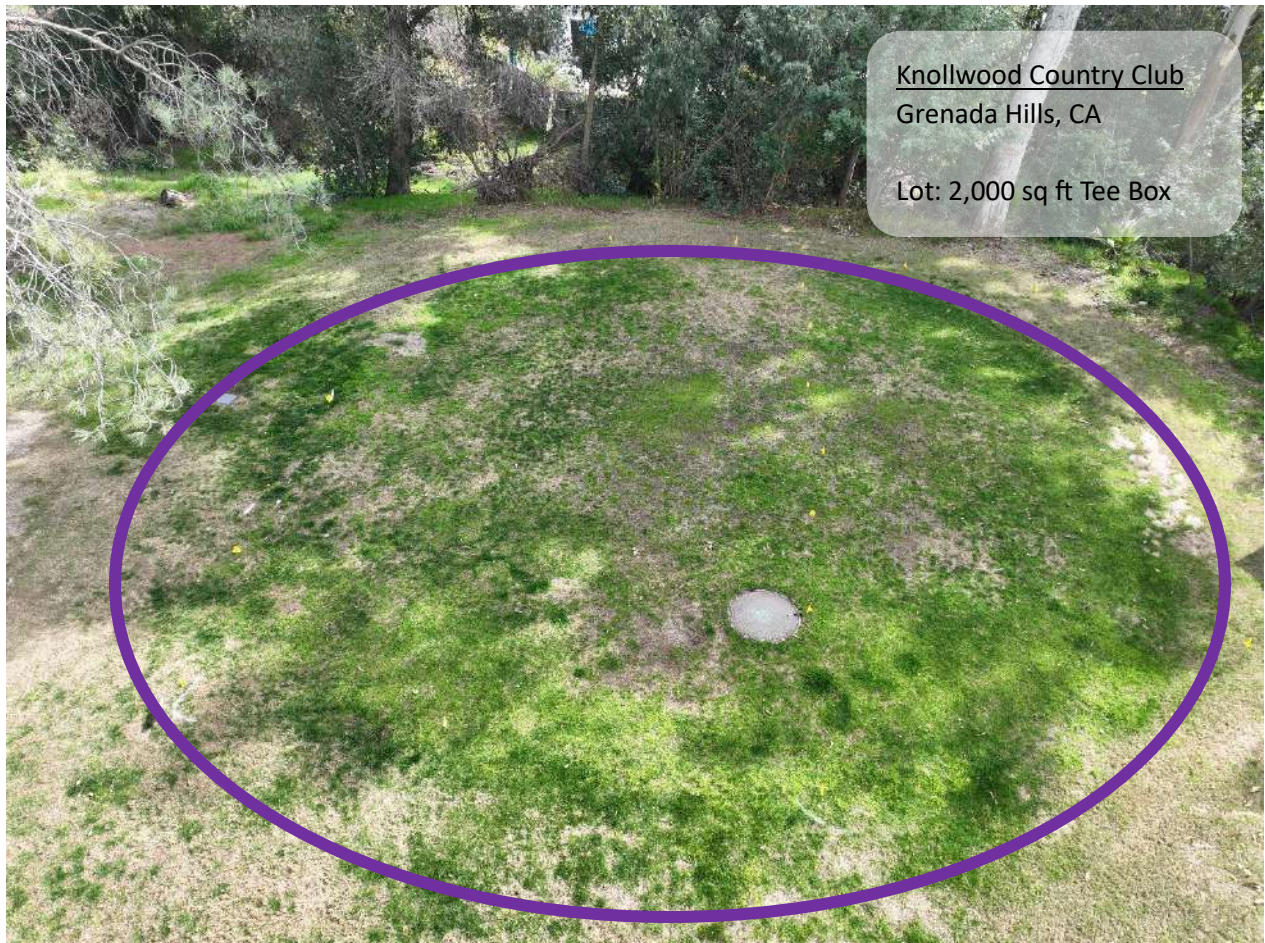
Post-rinse: Yes

Equipment Used:

- **Application:** Backpack Sprayer
- **Photograph:** DJI Fly Drone

TEST PARAMETERS:

- ☒ SURFACE RUNOFF CONTROL
- ☒ IRRIGATION REDUCTION
- ☒ INCREASE SOIL MOISTURE RETENTION
- ☒ RETENTION OF GREEN MASS
- ☒ GREEN MASS RECOVERY
- ☒ AID GERMINATION
- ☒ NUTRITION PROTOCOL
- ☒ SOIL STABILIZATION



February 16, 2024

high/low: 71/50 **Rain:** 0 days

Irrigation: 100%

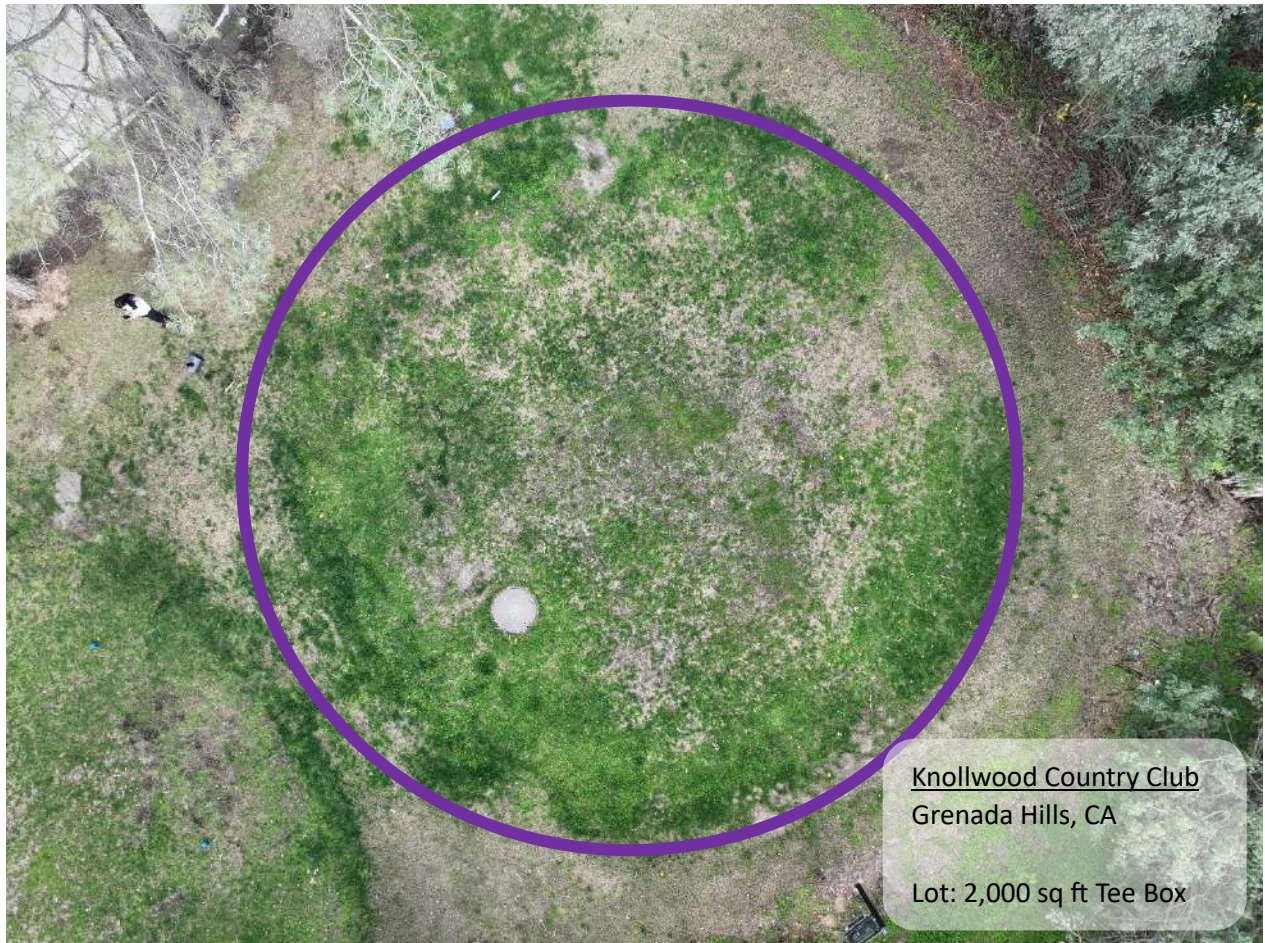
Comments:

SmartSoil Hydrogel has been integrated with the 2,000 sq ft tee box, outlined in purple.

The grass was shaved down to maximize the soil exposure. A post-application rinse was performed.

Beginning on February 21st, irrigation is expected to be reduced by 50% on the tee box.

Field Inspection by: D. Kumuryan



February 21, 2024

Weather average: high/low: 65/50 **Rain:** 0 days

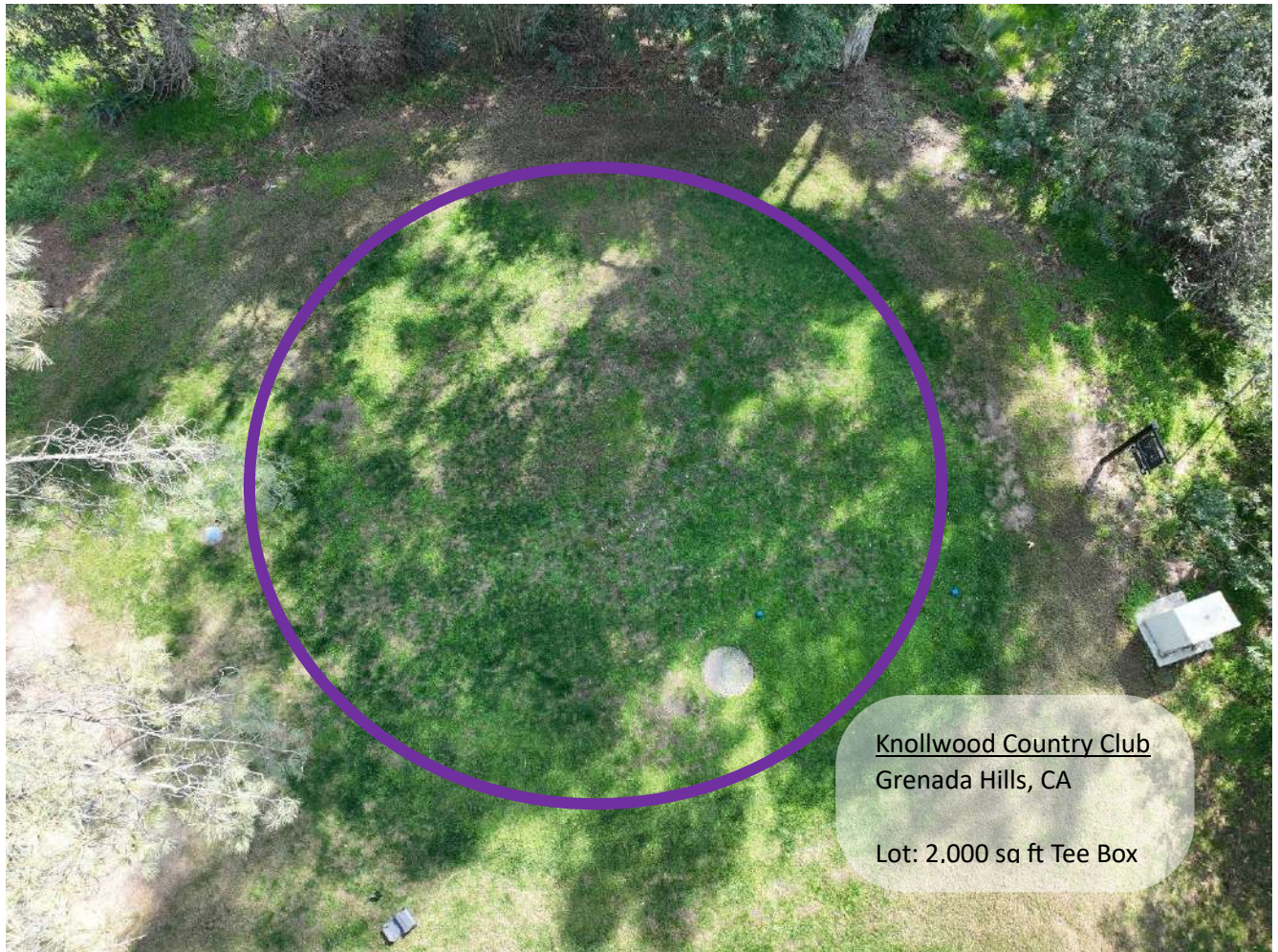
Irrigation: -50% effective February 21, 2024.

No supplemental irrigation.

Comments:

Irrigation has been reduced by 50% and is expected to remain at this rate for the next 5 years.

Field Inspection by: D. Kumuryan



Knollwood Country Club
Grenada Hills, CA

Lot: 2,000 sq ft Tee Box

February 27, 2024

Weather average: high/low: 66/50 **Rain:** 0 days

Irrigation: -50% effective February 21, 2024.

No supplemental irrigation.

Comments:

New grass can be seen sprouting and patches are filling up.

Field Inspection by: D. Kumuryan



Knollwood Country Club
Grenada Hills, CA

Lot: 2,000 sq ft Tee Box

March 7, 2024

Weather average: high/low: 67/45 **Rain:** 0 days

Irrigation: -50% effective February 21, 2024.

No supplemental irrigation.

Comments:

Bermuda grass is coming back to life.

Field Inspection by: D. Kumuryan



April 16, 2024

Weather average: high/low: 84/49 **Rain:** 0 days

Irrigation: -50% effective February 21, 2024.

No supplemental irrigation.

Comments:

The heat has started to pick up, yet irrigation has remained the same.

Field Inspection by: D. Kumuryan



May 8, 2024

Weather average: high/low: 76/53 **Rain:** 0 days

Irrigation: -50% effective February 21, 2024.

No supplemental irrigation.

Comments:

The club went through aerification, overseeding and added a bed of mulch to aid in the recovery of the tee box.

Field Inspection by: A. Mikrakis



May 23, 2024

Weather average: high/low: 70/57 **Rain:** 0 days

Irrigation: -50% effective February 21, 2024.

No supplemental irrigation.

Comments:

The grass has fully recovered, and patches have been filled.

Field Inspection by: A. Mikrakis



May 30, 2024

Weather average: high/low: 81/55 **Rain:** 0 days

Irrigation: -50% effective February 21, 2024.

No supplemental irrigation.

Comments:

The grass is of the best quality for this time of year they have ever seen while working there. Usually, it's just dirt there during this time.

Field Inspection by: A. Mikrakis



June 14, 2024

Weather average: high/low: 87/59 **Rain:** 0 days

Irrigation: -50% effective February 21, 2024.

No supplemental irrigation.

Comments:

The superintendent uses mulch to cover divots made from players teeing off.

Field Inspection by: A. Mikrakis



Knollwood Country Club
Grenada Hills, CA

Lot: 2,000 sq ft Tee Box

June 14, 2024

Weather average: high/low: 87/59 **Rain:** 0 days

Irrigation: -50% effective February 21, 2024.

No supplemental irrigation.

Comments:

In this picture you can compare the quality to the tee box that is in front of the tee we applied on (outlined in purple) and the quality of the back tee is the same if not better than the bigger tee box.

Field Inspection by: A. Mikrakis

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