

PROJECT STAKEHOLDERS

- Toll Brothers, Inc.
- The Lightfoot Planning Group
- Brightview Landscape
- HydroSprout, Inc.
- Stover Seed

CHALLENGES

- Low organic matter
- Elevated sodium absorption ratio
- Elevated pH of 8.4
- Low nitrogen and phosphorous levels; high chloride levels

APPLICATION

- ProGanics® BSM:
4,000 lb/ac (4,480 kg/ha)
- JumpStart™:
3.75 gal/ac (35 L/ha)
- BioPrime™:
120 lb/ac (135 L/ha)
- Coir blanket
- Straw blanket with
biodegradable netting

RESULTS

- The combined soil amendments and erosion protection provided an ideal growing environment
- The project owners saw significant savings on installation costs and time

Toll Brothers, Inc., a top-ranked luxury home developer, needed a solution to revitalize deficient soils on the Robertson Ranch master-planned community. The steep, coastal slopes of the property had been depleted from years of adjacent farming. Flanked by the historic El Camino Real Highway, the site also posed a threat to the sensitive Agua Hedionda Lagoon wetlands.

Implementation of a precise erosion control and landscape plan was necessary to protect and increase land value. Profile® Products assisted with soil testing that showed poor conditions in need of a holistic approach to address the soil deficiencies. Based on the results, Profile prescribed ProGanics® Biotic Soil Media, JumpStart™ and BioPrime™ to modify the soil for more favorable growing conditions. ProGanics is a hydraulically applied Engineered Soil Media™ (ESM™) that provides organic matter and soil-building components to modify soil chemistry and initiate vegetative growth. JumpStart and BioPrime accelerate germination and improve long-term plant vitality.



Follow-up photos taken in August 2017

To control erosion on the 2:1 and 3:1 slopes, HydroSprout, Inc. installed coir and straw blankets with biodegradable netting over the ProGanics “soil” layer. Follow-up inspections one year later confirmed the soil amendments and erosion control protection provided the ideal growing environment for the seed and container stock to thrive.

Moreover, efficient hydraulic application of ProGanics and the prescriptive solutions decreased installation times, minimized traffic disruptions along El Camino Real, and virtually eliminated the construction equipment typically required to incorporate topsoil. Toll Brothers saw impressive results and significant savings thanks to the speedy installation.



ProGanics® BSM applied to slopes along El Camino Real Highway in April 2016