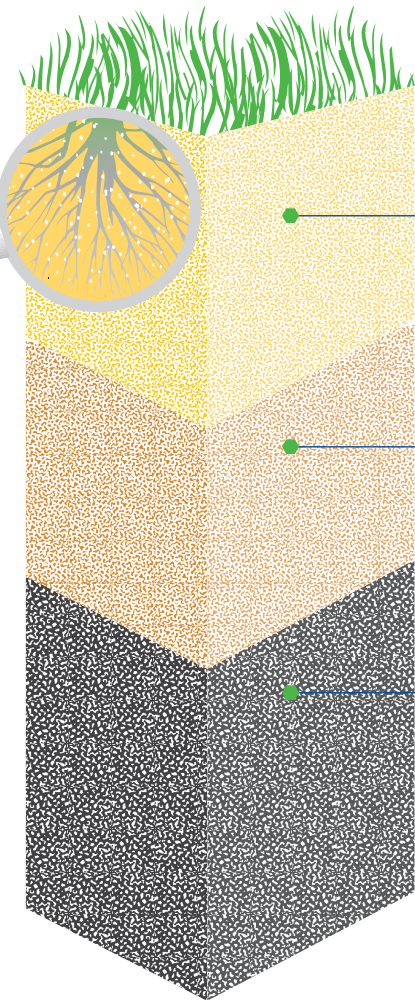


Sports turf amended with NuGreen®



NuGreen®
plus sand in
top 125mm

Sand only

Drainage
gravel

- Rapid germination
- Dense turf mat
- Less 'dry patch'
- Stronger root development
- Higher CEC
- Holds nutrients
- Excellent water retention
- Maintains good percolation rates
- Reduced nutrient leaching
- Reduces fertiliser requirements



PO Box 175, Matamata 3440, New Zealand, email: info@bpmnz.co.nz www.bpmnz.co.nz

The NuGreen® brand is currently being registered as trademark of Blue Pacific Minerals.

Referral from - Aviation Country Club

NuGreen® was used in construction of a practice green. Course Supervisor Peter Foskin was surprised at the rapid establishment of the green. "Despite the green being in a exposed position irrigation requirements were reduced and the green seemed harder and incurred less ball damage" he said.

Referral from - Wainuomata Golf Club

NuGreen® has been included in their construction programme for 3 years. The greens construction with NuGreen® are easier to manage and require approximately 30% less irrigation. Once the NuGreen® is loaded with nutrients less fertiliser is required. Often potassium is not required, only phosphate and nitrogen are applied.

Distributed by:

NuGreen®

FOR THE CONSTRUCTION AND MAINTENANCE OF SAND BASED SPORTS TURF PROFILES

- Reduce Irrigation Costs
- Reduce Fertiliser Costs

Addition of NuGreen® to sports turf areas reduces fertiliser leaching and irrigation requirements. Promotes rapid turf establishment, assists plant health and promotes a stronger, deeper root structure. All these benefits combine to reduce management inputs and improve turf performance.





What is NuGreen®?

NuGreen® is a naturally occurring mineral that is used internationally in turf culture.

It is specifically sized granules that have been approved by the NZ Sports Institute for use as a turf amendment.

How does NuGreen® work?

A series of unique volcanic processes combine to form a mineral that has high internal pore space that is also negatively charged. NuGreen® is made from this mineral and is therefore able to absorb significantly more water and nutrients than sand.

How do you use NuGreen®?

NEW CONSTRUCTION

- Using an approved mixer, mix 10% v/v with sand for the top 125mm of turf construction prior to spreading.

FERTILISER MANAGEMENT

- Regular soil tests should be taken. Less fertiliser, particularly potassium, will be required.

IRRIGATION MANAGEMENT

- Irrigation intervals should be re-evaluated and extended.

GENERAL MAINTENANCE

- Cored holes in problem areas can be back filled with 100% NuGreen®.
- For a general coring use up to a 50% NuGreen®/sand mix.

What are the benefits of NuGreen®?

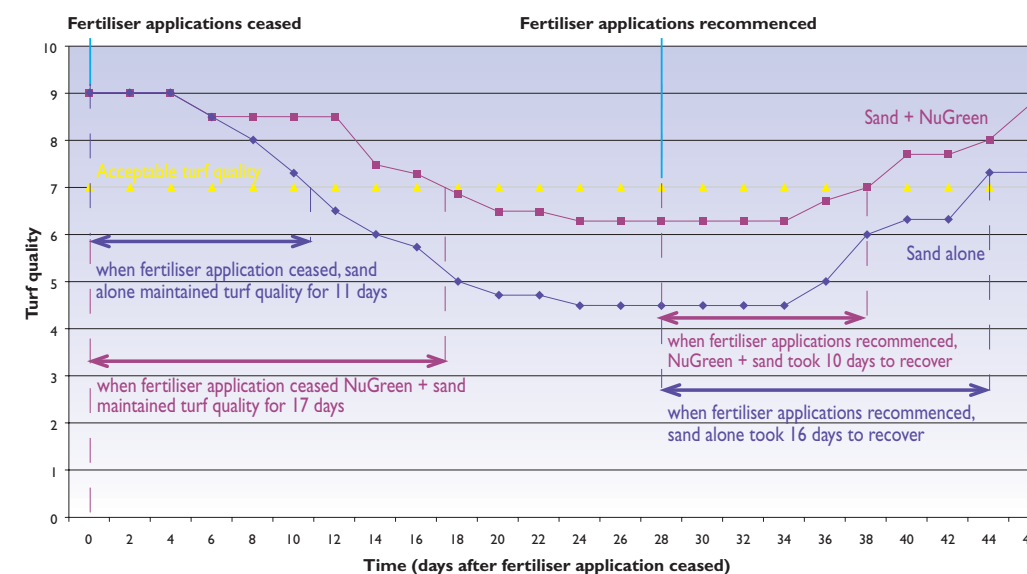
- Reduces irrigation requirements by up to 30%.
- Reduces dependency on surfactants and handwatering treatment of dry patch areas.
- Improves water filtration during irrigation and heavy rainfall.
- Improves fertiliser use efficiency by up to 25%
- Reduces fertiliser leaching
- Reduces establishment time of new turf areas
- Reduces management and input costs

NuGreen® plus sand vs sand

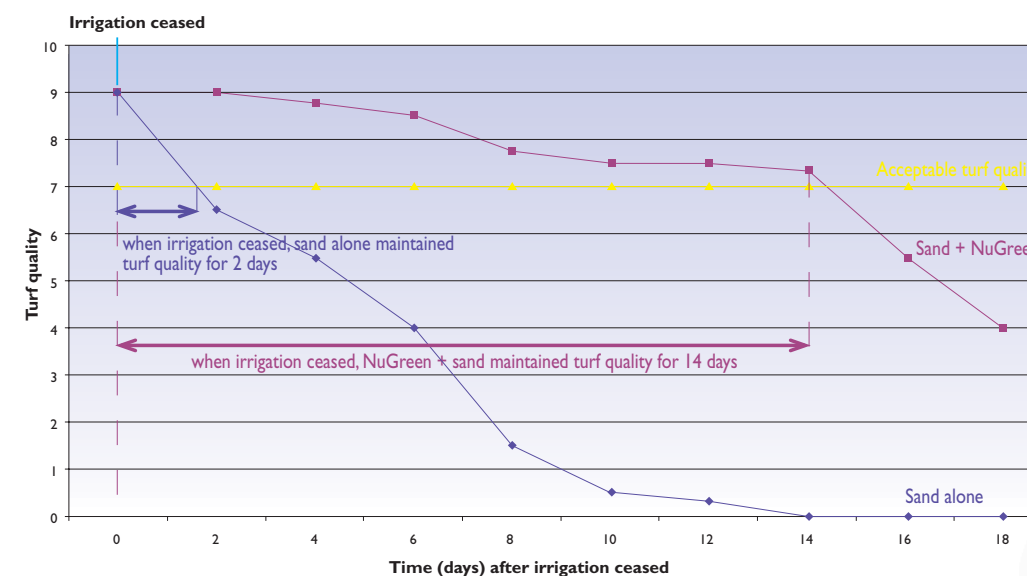
Discs of mature turf established in sand alone or sand plus NuGreen® under greenhouse conditions were evaluated for nutrient and moisture retention by the NZSTI at Palmerston North.

	Sand alone*	Sand plus 10% (v/v) NuGreen®
Cation exchange capacity (meq/100g)	2.9	8.1
Air filled porosity (by volume)	32.7% (Outside USGA specifications)	28.6% (Within USGA specifications)
Water filled porosity (by volume)	11.7% (Outside USGA specifications)	17.1% (Within USGA specifications)
Days maintaining acceptable turf quality after cessation of irrigation.	2	14
Days maintaining acceptable turf quality after cessation of fertiliser applications.	11	17

*Sand grade will vary between locations.



Turf Quality & Fertiliser



Turf Quality & Irrigation