

Bruce Highway – Boundary Road Interchange Narangba

SITUATION

The Department of Transport and Main Roads (TMR) upgraded the existing two lane Boundary Road Interchange on the Bruce Highway at Narangba to six lanes with longer on and off ramps. The additional lanes and shared user paths for pedestrians and cyclists has improved safety, eased congestion and will be capable of sustaining planned upgrades to the Bruce Highway from six lanes to eight lanes.

Challenging soils meant DuraVeg and Evergreen Power Seeding PTY Ltd needed to work together to understand the substrate and create the desired outcome. Evergreen carried out all the revegetation work.

CHALLENGE

- Old soil analysis
- Very low pH soil, low calcium
- Low organic matter
- Steep batters

SOLUTION AND APPLICATION

- Retake soil analysis and evaluate through the PS3 programme www.profileps3.com.
- Provide solutions including ameliorants to amend deficiencies
- Amelioration of existing topsoil with MPRoots, pH Plus Tri-cure
- Apply ProGanicsTM at 5.6ton/ha with desired seed blends
- Application of Flexterra[®] HP-FGMTM at 4.4ton/ha



RESULTS

- Great early strike of cover
- Zero erosion
- Native species establishment
- Desired outcome with native trees and shrubs throughout the project that can be seen today



Six weeks after applications



Result from the applications



Result from the applications

FIVE FUNDAMENTALS

FUNDAMENTALS OF EROSION CONTROL AND VEGETATIVE SOLUTIONS

A holistic approach to erosion control and vegetative strategies

These five fundamentals take the guesswork out of the crucial decisions that need to be made to ensure project success.

1. Creating Optimal Soil Conditions

Soil testing provides essential information to determine what adjustments, if any, need to be made to assure a more favorable growing environment.

2. Picking the Right Plant Space

It is essential to select plant species that are adapted to project locations, its conditions, intended use and maintenance requirements.

3. Selecting the Correct Erosion Control Material

The correct cover is necessary to protect both seed and soil, taking into account erosion control effectiveness, ability to facilitate growth and functional longevity.

4. Ensuring Proper Installation

Correctly installing these products in accordance with the manufacturer's mixing, application and installation guidelines will maximise their performance.

5. Follow-up Inspection and Maintenance Practices

Monitoring project progress will ensure compliance issues are being addressed. Maintenance may be required to mitigate unexpected challenges.



JumpStart™ Liquid

Accelerate Germination & Establishment

- Immediately effective liquid blend of soil-penetration agents, humic acid and more than 200 species of soil bacteria lasting up to 6 weeks
- Improves moisture infiltration and retention for faster, more complete germination
- Promotes faster nutrient uptake and conversion to get plants off to a stronger start
- Reduces soil compaction and salinity



ProGanics™
BIOTIC SOIL MEDIA™

Increase Organic Matter & Boost Soil Fertility

- Accelerates the development of depleted soils/substrates with low organic matter, low nutrient levels and limited biological activity
- An ideal time and money-saving alternative to topsoil and compost
- Excellent for challenging sites with difficult access, on steep slopes and when soils are too wet or frozen to dig, transport and spread



Erosion Control

- Proven to surpass all hydraulically applied mulch products and turf establishment blankets
- Bonds to soil immediately and is 99% effective in minimizing soil loss
- 1500% water-holding capacity accelerates growth
- Functional Longevity of up to 18 months makes it ideal for long-term protection in arid climates and dormant seeding



BioPrime™ Dry

Slow Release/Rejuvenates Poor Soils

- Biostimulant with 18-0-0 slow-release nitrogen, humic acid, seaweed extract and endomycorrhizae lasting up to 6 months
- Continually feeds nitrogen to plants for an extended period, ensuring plant health in low maintenance installation
- Promotes the efficient delivery of micro- and macronutrients
- Decreases soil compaction
- Reduces plant stress

For help on your next project site, contact our DuraVeg team at PGG Wrightson Turf

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www.duraveg.com.au



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ENGINEERING™**
EARTH-FRIENDLY SOLUTIONS
FOR SUSTAINABLE RESULTS™

*Improving the Environment Through
Earth-Friendly Erosion Control*

- Agronomic and engineering expertise combine with advanced technologies to create a broad array of cost-effective and earth-friendly products
- Provides sustainable solutions for slopes, channels, shorelines, water management projects, highways, pipelines, waste containment, fine turf areas and environmentally sensitive sites



*Design Software that Integrates the Major
Erosion and Sediment Control Disciplines*

- The industry's only web-based tool for selecting the right products for your project
- Design elements encompass: soils, vegetation species, erosion and sediment control material, installation and inspection/maintenance
- Holistic solutions start with a FREE soil test/analysis at www.ProfilePS3.com



*A Revolutionary Green Alternative
to Hard Armor*

- Futerra® TRM or Futerra® R45 HP-TRM hydraulically infilled with Flexterra® HP-FGM™ delivers unprecedented design safety against elevated levels of hydraulic lift and shear forces
- A more aesthetically pleasing and environmentally superior means of protecting high-discharge waterways and steep slopes
- Installation cost is 30-50% less than hard armor



Superior Performance at a Competitive Price

- Meets or exceeds all industry testing standards for BFM/SMM products
- Highest loading formulation with BSF; 72kgs per 1000 litres of water
- Speeds application; proprietary Dispersion Granules facilitate even distribution of fibres and chemistry, ensuring smooth slurry pumping and shooting
- Functional longevity of up to 12 months



*Driven to Provide Effective,
Environmentally Friendly Solutions*

- The world's largest manufacturer and supplier of hydraulically applied erosion control technologies, rolled erosion control blankets, turf reinforcement mats and vegetation establishment products
- Proven solutions that help you thrive in a competitive environment while enhancing the natural environment of the sites you serve

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