

# THE GEOSOURCE UPDATE

Geosynthetics | Erosion & Sediment Control | Stormwater Management | Hardscapes

## SUMMERTIME VEGETATION CHALLENGES

While many people enjoy summer for the sun and warm weather, these same conditions can create challenges when establishing vegetation, especially in more hot and arid regions. Fortunately, there are a few ways to improve the odds of success.

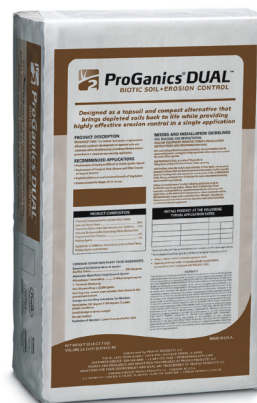
Choosing native vegetation species, that are endemic to the area, can be an ideal way to ensure the vegetation is suited to local conditions like soil type, temperature and precipitation levels. This can reduce inputs, like fertilizer or lime, and reduce the need for initial watering.

Regardless of species, soil testing can be an inexpensive way to understand how to create optimal conditions. Excess fertilizer application can increase the soluble salts in the soil solution. In arid conditions, these salts can further stress already struggling seedlings. For soils with high soluble salts, the use of some biostimulants can help reduce saline (high salt) conditions. For sodic soils (high sodium), the use of gypsum can reduce sodium levels. Remediation of these issues requires adequate flushing of the excess sodium or salts away from the rooting zone. For soils with poor water-holding capacity, the addition of a material that can increase soil moisture may be beneficial. These can include materials like biotic soil technologies or refined wood fiber technologies. In addition to using the right matrix and amendments, increasing the matrix application rates can add further water-holding capacity.

Overall, while there may be difficult conditions to overcome in the summer months, soil testing, proper amendments, and careful seed selection can play a critical role in achieving vegetation establishment.



Profile Products' ProGanics® DUAL™ Biotic Erosion Control Matrix



Contact us for assistance with Profile's PS<sup>3</sup> - Profile Soil Solutions Software and their free soil testing.

# TECHNICAL TALKS WEBINAR SERIES

## UPCOMING WEBINARS

### Hydraulically Applied Erosion Control & Vegetation Solutions

August 21st, 2024 | 12:30pm-1:30pm CST

[REGISTER HERE](#)



Bill Murphy and Rachel Reynolds together again! Join us to learn what Profile Products has been up to since our last conversation. In addition to Profile's popular Flexterra, ProGanics and ProMatrix products, you will learn about Proganics DUAL and more in this webinar. Profile Products is the world's largest manufacturer and supplier of hydraulically applied erosion control technologies, soil modifiers and more. Profile's products help prevent erosion and establish vegetation in virtually any arable environment around the globe. We'll also show some local ASP/Bowman/Quick/Cascade supplied projects that utilized some of Profile's solutions.

### Soil Cell Systems for Urban Tree Development Webinar

September 4th, 2024 | 12:30pm-1:30pm CST

[REGISTER HERE](#)



Bill Murphy, P.E. will be joined by a special guest to cover Citygreen's Stratavault™ soil cell system and the many benefits it provides. Enhancing community spaces with trees helps mitigate urban heat islands, achieve cities' urban canopy targets and improve water quality. Trees in urban areas struggle due to a lack of soil volume for their tree roots and have an average life expectancy of 3-5 years. With Stratavault, urban trees can now live 50+ years. Soil cells provide structural support to surrounding sidewalks and roads while also creating a void space underneath for soil for the tree's roots to grow. This webinar will cover product details and benefits, installation guidelines and case studies from some of our local ASP, Bowman, Quick Supply & Cascade projects.

## FODS TRACKOUT CONTROL

FODS Trackout Control Mat Systems offer a unique design to effectively remove mud, rock and other debris from vehicle tires. With FODS, contractors can quickly establish a stabilized construction site entrance and relocate access locations as the project progresses.

Designed to handle significant vehicle traffic, these durable HDPE mats are environmentally friendly and are reusable and recyclable. FODS will not damage the ground's surface or the vehicle's tires and can be installed over asphalt on urban projects.

Benefits of FODS:

- 100% Made in the USA
- Deploy a Stabilized Entrance in 30 Minutes
- Requires Little to No Maintenance
- Savings on Materials & Labor Costs
- Takes Up Less Space Than Traditional Trackout Control Methods



## UPCOMING IECA CONFERENCES

We'll be attending the upcoming regional International Erosion Control Association's (IECA) conferences and look forward to seeing everyone there! Please join our ASP Enterprises, Quick Supply Co. & Bowman Construction Supply teams at these events.



### 2024 IECA Great Rivers Conference | October 29, 2024 | Lenexa, Kansas

ASP Enterprises and Quick Supply Co. will have a booth at this conference. Expect insightful discussions on construction within renewable energy, innovative approaches to soil and water management, emerging techniques in sediment control, strategies for addressing legacy product remnants at sites, and navigating the regulations surrounding natural and biodegradable products. Attendees are eligible to receive 4.5 Professional Development Hours for attending the conference. [Learn more and register here.](#)

### 2024 IECA Mountain States Conference | November 11-12, 2024 | Fort Collins, Colorado

Bowman Construction Supply will have a booth at this conference. Expect insightful discussions on construction within renewable energy, revegetation in the arid west, innovative approaches to soil and water management, integration of sustainability into infrastructure and more. Attendees are eligible to receive Professional Development Hours for attending the conference. [Learn more and register here.](#)

# ENGINEER'S NOTE



**Bill Murphy, P.E.**  
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## *From the Desk of Bill Murphy, P.E.*

**Dirt Is Just Dirt, Right?** — Holy cow! My college geology professor would have snapped. “Soil. It is soil. Not dirt!” And no, all soils are not created equal. The term “soil” appears at least 85 times on each of our company websites, so it must be important to us.

Civil engineers strive to design resilient and sustainable infrastructure that protects us and improves the quality of life. Soil and water health is critical to those designs. There are a variety of soils and soil tests. They all start with understanding your purpose for the soil.

Roads, building foundations, bridge footings, railroads, and dams need a soil test that measures characteristics like shear strength, moisture content, permeability, specific gravity, and California bearing ratio (CBR). Geogrid and geosynthetics suppliers ask for soil test results as they make design recommendations for pavement subgrade correlated to which product you choose. Learn more in our upcoming “Technical Talks” webinar with Tensar. Stay tuned to this newsletter for that information.

Agriculture and vegetation projects need a soil test that measures characteristics like pH, nutrients, and organic matter. Profile Products urges soil tests for all vegetation projects as one of their Five Fundamentals is Soil Health. More specifically, their first fundamental is “Assessing & Creating Optimal Soil Conditions”. From those soil test results, they will prescribe soil amendments, determine proper plant selection, and help you achieve sustainable vegetation. Learn more at our August “Technical Talks” webinar.



Soil tests for agriculture and vegetation projects measure characteristics like pH, nutrients, and organic matter.



Soil tests for road, building foundation, bridge footing, railroad, and dam projects measure characteristics like shear strength, moisture content, permeability, specific gravity and California bearing ratio (CBR).

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