

# PROFILE IN ACTION

Pipeline Restoration Solutions



**Thirty-mile challenge**  
Rockies Express Pipeline Project



**Victory in Vicksburg**  
The MEP Pipeline Project



# Right-of-Way Restoration

*Profile sets pipeline projects straight from the start.*

**PIPELINE** projects are some of the most difficult projects to complete. Regulations regarding construction, stormwater compliance and final approval are changing rapidly. Projects are intensely scrutinized, and Profile® has solutions to ensure you:

- Surpass regulatory compliance
- Quickly establish vegetation
- Achieve superior on-site erosion control management
- Reduce risk of remote fires from straw mulching
- Utilize environmentally-friendly products and practices
- Drive efficiency because “Time is money” and you must get it right the first time

**Profile Products’ extensive team of experts and our innovative product line is prepared to assist you in solving your erosion control challenges.** We bring 20 years of demonstrated success in pipelines, highway, airport, home building, waste management, water management and commercial construction projects.

Profile Products has become a world leader in erosion control and vegetation establishment science.

- Green Design Engineering™ is our way of thinking that ensures our people, products, technologies and services are always seeking environmentally beneficial solutions
- We are the world’s largest supplier of hydraulically applied mulches, hydraulic mulch additives, turf reinforcement mats and erosion control blankets
- Innovator of many technologies that have become today’s industry standards
- Leader in proactive product research and development
- Provider of Profile Soil Solutions Software, the most advanced web-based design and product selection tool for site solutions; [www.profileps3.com](http://www.profileps3.com).

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PROFILE DOES MORE THAN JUST MANUFACTURE PRODUCTS; WE OFFER SITE SOLUTIONS TO ENSURE SUCCESSFUL PROJECTS FROM START TO FINISH.

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“Profile’s goal on any site is to create sustainable vegetation as a long-term solution. Our ability to stabilize the soil surface and provide ideal growing conditions in highly sensitive environmental areas is critical to successfully restoring linear right of ways.”

**Marc S. Theisen, CPESC, CPSWQ**  
**Vice President, Profile Erosion Control Solutions**



## PROFILE IN ACTION

As two recent examples illustrate, Profile's team worked with pipeline owners and constructors to restore vegetation on several hundred acres of the Rockies Express Pipeline (REX) East in Ohio and Indiana, and the Midcontinent Express Pipeline (MEP) in Mississippi.

### Controlling Highly Erosive Soils on the MEP

The MEP pipeline project in Vicksburg, Mississippi, traversed 10 miles of some of the most highly erosive, silty loam soils (referred to as loess) in the U.S. Engineers and contractors needed an interim product to stabilize this unusual soil during construction until they could apply a permanent solution for project completion.

As the first step after the pipeline was lowered into the ground and buried in August of 2009, the restoration contractor,

#### PROJECT KEY POINTS/HIGHLIGHTS Mid-continent Express Pipeline Project

**LOCATION:** Vicksburg, Mississippi

**PROJECT EXPANSE:** 10 miles of pipeline

**CHALLENGES:** Environmentally sensitive area; highly erosive soils; extreme rainfall (30 inches)

**RESTORATION CONTRACTOR:** Reel Neet Erosion Control

**PROFILE MATERIALS USED:** ProPlus® JumpStart™, NeutraLime™, BioPrime™, Flexterra®, Seed Aide® Aero™

**EQUIPMENT USED:** 3300 gallon hydroseeders; conventional broadcast spreaders

Reel Neet Erosion Control, stabilized the loess soil within the 10-mile right-of-way with Profile's Seed Aide® Aero™ using conventional broadcast spreaders. Then, upon completion of all necessary site work, final restoration was initiated in September of 2009 using multiple Profile products.

"We applied the Seed Aide Aero as a temporary solution," said Bobby Thomas, owner of Reel Neet. "After

"I thought we would have had a number of repairs from the amount of rain we had, but the Profile-provided solutions have done a great job."

**Bobby Thomas**  
Owner  
Reel Neet Erosion Control

completing construction, we mixed the seed, fertilizer and Profile's Flexterra® with Prescriptive Agronomic Formulations (PAFs): JumpStart™, NeutraLime™ and BioPrime™ as our permanent solution to promote effective, fast vegetative growth."

This unique, synergistic combination results in superior erosion control and denser, long-term vegetation. Using 3300 gallon hydroseeders, the seed mixture was applied to the entire 10-mile section. To comply with regulation, Flexterra mixed with seed and the PAF soil amendment products was sprayed along these waterways, but no fertilizers were applied within 100 feet of water bodies.

Thirty inches of rain in the region shortly after application caused contractors to be concerned that the treatments did not have time to set up. However, the 10 miles have held without eroding and vegetation is coming in. "I thought we would have had a number of repairs from the amount of rain we had, but the Profile-provided solutions have done a great job," said Thomas. "I think if we would have tried any other products, we would have had a lot of problems."



## Preventing Rolling Hill Erosion on the REX

Region contractors had worked on a 40-acre section of the REX pipeline in Indiana before the stretch of REX pipeline in Cambridge, Ohio.

“Seed Aide Aero is very attractive for pipeline projects.”

**Andy Constantine, CPESC**  
**Market Development Manager**  
**PROFILE Products LLC**

“We initially tried straw mulch on the Indiana portion, but it was washing and diverting,” said Kelsey Thomas, project engineer for Price Gregory, the general contracting company overseeing construction and restoration for REX. “We had to find a better product and chose *Seed Aide Aero* as the permanent vegetation solution.”

The Indiana site restoration application began in the middle of winter, not the ideal time of year to establish vegetation. First, a regional seed mixed with fertilizer was applied to the area followed by *Seed Aide Aero*. Using broadcast spreaders on the back of tractors, workers put 500 pounds of product in the machine and broadcast it about 40-50 feet, ultimately covering several hundred acres of pipeline.

REX contractors initially tried straw mulch on the initial two to three miles—but, again, it did not hold, washing onto the terraces and causing additional erosion control problems.

“We applied *Seed Aide Aero* to the remaining 550 acres,” said Thomas. “It prevented the water bars from stopping up. Straw was building up and we had erosion, but the *Seed Aide Aero* eliminated this problem.”

The REX Ohio pipeline included a stretch of about 20 acres of very steep ground in which no equipment could safely traverse. Engineers decided to aerially apply the *Seed Aide Aero* using a helicopter with a specially designed hopper and deployment system. “*Seed Aide Aero* is very attractive for pipeline projects,” said Andy Constantine, market development manager for PROFILE Products LLC. “With the first rain, it chemically bonds to the soil without having to haul or pump water and is highly effective for aerial application.”

### PROJECT KEY POINTS/HIGHLIGHTS Rockies Express Pipeline Project

**LOCATION:** Cambridge, Ohio

**PROJECT EXPANSE:** 30 miles of pipeline

**CHALLENGES:** Environmentally sensitive area; highly erosive soils; very steep inaccessible ground

**GENERAL CONTRACTOR:** Price Gregory

**PROFILE MATERIALS USED:** Seed Aide® Aero™

**EQUIPMENT USED:** Helicopter with a specially designed hopper and deployment system; conventional broadcast spreaders attached to tractors

You can count on Profile Products’ proven technologies to provide the best erosion control and vegetation solutions.

To learn more about Profile’s total approach to erosion control or to find a specialist, visit [profileproducts.com](https://profileproducts.com) or call (800) 508-8681.

# INNOVATIVE PIPELINE SOLUTIONS



## DRY APPLIED SOLUTION FOR VEGETATING LIMITED ACCESS AREAS

As a temporary or permanent solution to keep soil in place, increase moisture retention and promote vegetation establishment, apply *Seed Aide® Aero™*. Made from recycled paper and wood fibers.



## SUPERIOR HYDRAULIC MATRIX FOR EXTREME EROSION CHALLENGES

For maximum growth potential, best possible erosion control and dust mitigation for up to 12-18 months, use *Flexterra® HP-FGM™*. Made from recycled wood fibers and 100% biodegradable.



## SOIL MANAGEMENT ADDITIVES TO HELP ASSURE ESTABLISHMENT

Boost the fertility of soils using the advanced technology found in Profile *ProPlus®* Prescriptive Agronomic Formulations. Balance soil pH quickly with our proprietary, environmentally safe acid and lime products.



## REPLACE HARD ARMOR FOR HIGH STRENGTH CONTROL IN SENSITIVE AREAS

*GreenArmor's* reinforced matrix is the strongest way to secure extreme slopes and waterways with a vegetation solution.



## TECHNOLOGY TO TREAT RUNOFF WATER IN SENSITIVE AREAS

*Terra-Tubes®* water filtration tubes treat running water to contain sediment and drastically reduce turbidity.

# Green Design Engineering™

Our Green Design Engineering™ brings together integrated engineering designs, incorporating environmentally sustainable products with agronomic and erosion control expertise, to create and implement the most comprehensive, customized solutions for slopes, channels, shorelines, waste containment, water management and other environmentally sensitive sites.



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

Learn more about Green Design Engineering at [www.profileproducts.com](http://www.profileproducts.com).



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