



PROFILE SOIL SOLUTIONS SOFTWARE

Advanced Training

ProfilePS3.com



Training Module Overview



- Navigation
- PS³ Document Library
- PS³ Projects
 - Agronomics
 - Slopes
 - Channels
- PS³ Reports

NAVIGATION – HOME PAGE

Click on any of the navigation buttons to move around in the program.

The screenshot shows the PS3 user home page. At the top, there is a navigation bar with the Profile and PS3 logos, and links for MY PROJECTS, OVERVIEW & TUTORIALS, APPLICATION CALCULATOR, PROGANICS CALCULATOR, DOCUMENT LIBRARY, and GLOSSARY. A red box highlights this navigation bar. Below the navigation bar, the page is divided into two main sections: 'WELCOME PS3 USER' and 'MY PROJECTS'. The 'WELCOME PS3 USER' section contains a sign out link, a paragraph about the software's capabilities, a list of features, and a 'GET STARTED' button. The 'MY PROJECTS' section contains a 'Start new project' link, a paragraph about creating a first project, and a 'GET STARTED' button. On the right side, there is a sidebar with a 'MY PROJECTS' section and a 'GLOSSARY' section. At the bottom, there are links for 'SIGN OUT My Account' and 'CONNECT' with social media icons.

Profile Solutions for your Environment™

PS³ PROFILE SOIL SOLUTIONS SOFTWARE

MY PROJECTS OVERVIEW & TUTORIALS APPLICATION CALCULATOR PROGANICS CALCULATOR DOCUMENT LIBRARY GLOSSARY

WELCOME PS3 USER

Sign Out

PS³ can assist with a number of different types of projects providing you with a holistic and sustainable approach towards cost-effective erosion control, vegetative establishment and reductions in sediment and pollutants.

By adding your project to your account, PS³ can:

- Facilitate soil testing and resulting diagnostics to improve soil fertility and agronomic sustainability (make sure you check the YES box on the form)
- Offer considerations for plant species selection
- Provide design, soil preparation and product selection criteria for slopes and channels
- Supply installation and application guidelines
- Provide inspection and maintenance guidelines

GET STARTED

MY PROJECTS

Start new project

You don't have any project. Click the 'Get Started' button below to create your first project.

GET STARTED

SOIL TESTING
To process your soil test by using three steps:

- COLLECT Collect sample and fill out form
- SEND Mail sample and completed form to Profile
- ANALYSE We analyze and interpret the results.

GLOSSARY
Review the glossary for soil test terms and definitions.

YES CREATE A BETTER SURFACE

SIGN OUT My Account

CONNECT

NAVIGATION – PS³ OVERVIEW & TUTORIALS

Click on either of these
to view the appropriate
training module.

Profile PS³ MY PROJECT OVERVIEW & TUTORIALS APPLICATION CALCULATOR PROGNOSIS CALCULATOR DOCUMENT LIBRARY GLOSSARY

Dashboard
OVERVIEW & TUTORIALS
Profile is dedicated to providing the most useful tools and reference guides to help you elevate your business. We have gathered several videos and reference documents that you can leverage for your next project.

OVERVIEW
What is PS³ Profile Soil Solution Software? In the FIRST AND ONLY web-based soil solutions tool integrating all erosion and sediment control disciplines via engineering and agronomic excellence!
Download PS³ Overview

TUTORIALS
PS³ has a variety of tutorials that provide you the valuable knowledge needed for your current or future project.
Download Getting Started Guide
Download Advanced Training Guide

WHAT IS PROFILE?
History of technical advancement, product design and real world experience provides the solution for best in-class products. From Flotterra 200™ to ProfileBall® solutions, our full line of products is designed and engineered to deliver value you demand. Our new "Engineered Fiber Matrix" (ProfileMatrix™) and CoverGrow™ Spray or Spread Products are the latest examples of how we keep up with your changing needs.

UTILIZE SOIL TESTING TO CHOOSE THE RIGHT PRODUCTS FOR YOUR PROJECT
PS³ provides the industry's only resource for integrating major erosion and sediment control disciplines while selecting the right products to address all characteristics of a specific project.
START A NEW TEST
View Tutorials

Welcome
My Project
Overview & Tutorials
Application Calculator
Prognosis Calculator
Document Library
Glossary

About
Contact
Complete Site
Help

SIGN OUT
My Account

CONNECT YouTube Facebook

Copyright © 2024 PPS All Rights Reserved. Go to: profile.com

TUTORIALS

PS³ has a variety of tutorials that provide you the valuable knowledge needed for your current or future project.



Download Getting Started Guide



Download Advanced Training Guide

Update your contact information or change your password on the "My Account" page.

Make sure to click the "Submit" button when you are finished to save the changes.

NAVIGATION – MY ACCOUNT

MY ACCOUNT

CONTACT US

CORPORATE SITE

SIGN OUT

ACCOUNT INFORMATION

PS3 User

testing

602-123-4567

test101@test.com

CHANGE PASSWORD

Existing Password

New Password

Repeat Password

SUBMIT

Profile PS3 MY PROJECTS

OVERVIEW TUTORIALS APPLICATIONS CALCULATOR PROFILES DOCUMENT LIBRARY GLOSSARY

Dashboard

HELLO PS3 USER

Update your password and account information.

TIP: BY DRIVING THE TRACTOR UPHILL THE TRACK SHOULD CREATE A BETTER SURFACE FOR APPLICATION.

Watch Tutorial PS Overview

ACCOUNT INFORMATION

PS3 User

testing

602-123-4567

test101@test.com

CHANGE PASSWORD

Existing Password

New Password

Repeat Password

SUBMIT

CREATE / UPDATE COMPANY PROFILE

test

US/MA

United States

Adverse

Phone #

602-123-4567

Cell #

781-123-4567

WebSite

SUBMIT

Profile PS3

Home About Contact Us

My Profile My Account My Account

Copyright © 2014 PPS All Rights Reserved. On: 10/10/2014

CONNECT

NAVIGATION – DOCUMENT LIBRARY

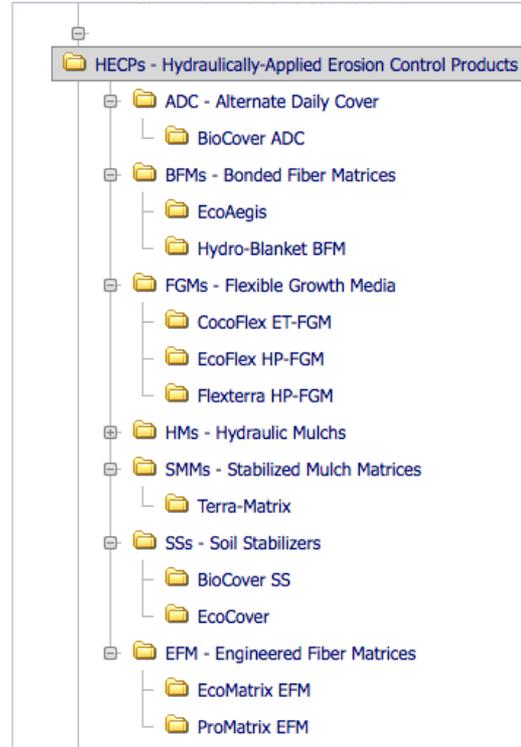
All available supporting information for Products used with PS³ – including Brochures, SDS, Specifications, CAD Details, Certifications, Case Studies, Application Guides, etc.

Click on a “+” to expand the folder or a “-” to collapse a folder.

The screenshot displays the Profile PS³ Document Library interface. At the top, the navigation menu includes 'Profile', 'PS³ MY PROJECTS', 'OVERVIEW & TUTORIALS', 'APPLICATION CALCULATOR', 'PRODUCTS CALCULATOR', 'DOCUMENT LIBRARY' (highlighted with a red box), 'GLOSSARY', and a search icon. Below the navigation is a 'Dashboard' section with a 'DOCUMENT LIBRARY' heading and a brief description. The main content area is divided into 'Folders' and 'Files'. The 'Folders' list includes: Document Library, Accessories, DECPs - Dry-Applied Erosion Control Products, Golf - PPC - Profile Porous Ceramics, HECPs - Hydraulically-Applied Erosion Control Products, PAFs - Prescriptive Agronomic Formulations, RECPs - Rolled Erosion Control Products, SCPs - Sediment Control Products, Turface - Sports Field Conditioners, Articles and Papers, Design References, Technical Bulletins, and Training Modules. A red box highlights the '+' icon next to the 'PAFs - Prescriptive Agronomic Formulations' folder, with a red arrow pointing to the explanatory text on the left. The 'Files' list includes: Profile Products Warranty Informat..., PS3 International Shipping Instruct..., PS3 Overview Handout.pdf, PS3 Overview Handout_es.pdf, and PS3 Terms and Conditions.pdf. A secondary 'Files' list on the right shows: Profile Products Warranty Informa..., PS3 International Shipping Instruct..., PS3 Overview Handout.pdf, PS3 Overview Handout_es.pdf, PS3 Terms and Conditions.pdf, HECPs - Hydraulically-Applied Erosion Control Products, PAFs - Prescriptive Agronomic Formulations, RECPs - Rolled Erosion Control Products, SCPs - Sediment Control Products, Turface - Sports Field Conditioners, Articles and Papers, Design References, Technical Bulletins, and Training Modules. The footer contains 'PS³ PROFILE SOIL SOLUTIONS SOFTWARE', a 'SIGN OUT' button, and social media icons for YouTube and Facebook.

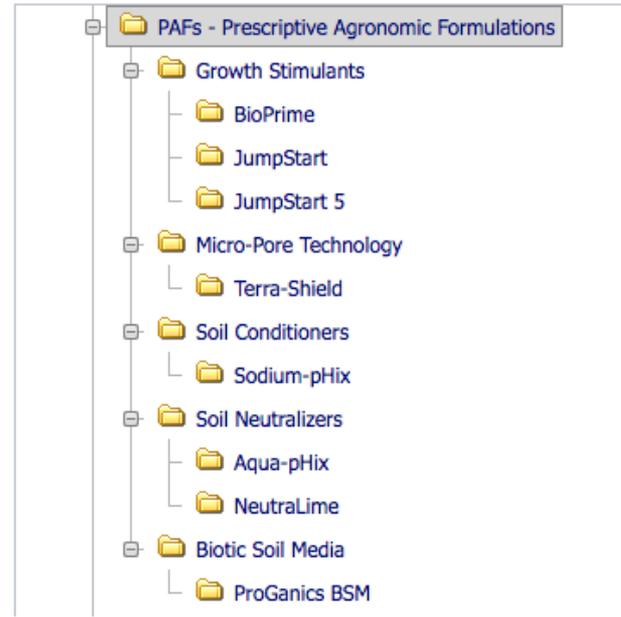
HECPs – HYDRAULICALLY-APPLIED EROSION CONTROL PRODUCTS

Folders

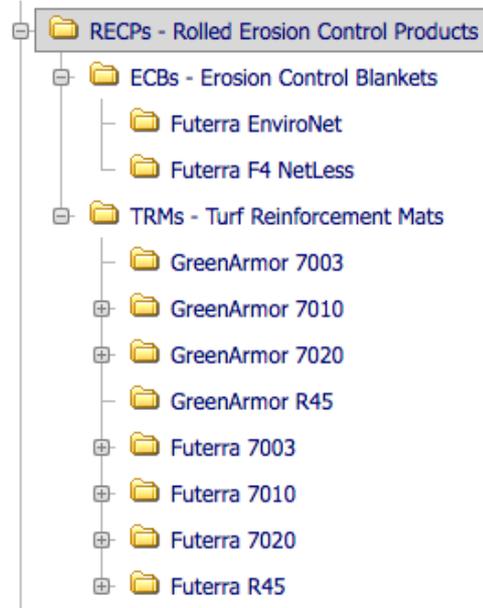


PAFs – PRESCRIPTIVE AGRONOMIC FORMULATIONS

Folders

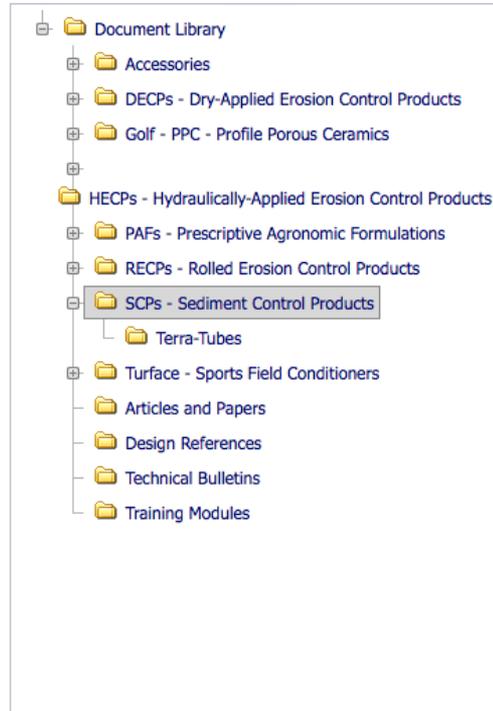


RECPs – ROLLED EROSION CONTROL PRODUCTS



SCPs – SEDIMENT CONTROL PRODUCTS

Folders



Selecting "My Projects" shows all of your projects along with some basic information such as project name, date created, etc.

Click on either of these buttons to add a new project.

Click on this button to view details or to edit an existing project.

PROJECTS - HOME

The screenshot shows the 'MY PROJECTS' page. At the top, there is a navigation bar with 'MY PROJECTS' highlighted. Below the navigation bar, there is a 'WELCOME DEB' section with a 'Sign Out' link. The main content area is titled 'MY PROJECTS' and includes a 'Start new project' button with a plus icon. Below this, there is a list of projects with the following columns: Project Name, User, Name, Created On, Active, and EDIT. The projects listed are: testdupeissue013017 english, testdupeissue012017, testdupeissue012017, testduplicate issue, testduplicate issue, test011917, test species issue metric, and Welch Test - Metric. At the bottom of the page, there are links for 'View Tutorials' and 'PS3 Overview', and a 'SEE MORE PROJECTS' link.

This is a close-up of the 'MY PROJECTS' table. At the top right, there is a red box around the '+ Add New Project' button. Below the table, there is a search bar and a table with the following data:

Project	User	Name	Created On	Active	EDIT
3455-0001	testing PS3 User	Temp Project	02/17/2017	YES	

At the bottom of the table, there is a 'Showing 1 to 1 of 1 entries' message and a 'Previous 1 Next' navigation bar. A red box highlights the '+ Add New Project' button at the bottom left of the page.

PROJECT DETAILS

The information you entered for your project is summarized here.

Click the “Go Back” button to return to the “My Projects” page.

You can edit the information you just entered by clicking the “Edit Project” button.

The screenshot displays the 'MY PROJECTS' section of the Profile PS3 software. At the top, there is a navigation bar with various tool icons. Below it, a 'MY PROJECTS' header is followed by a '+ Add New Project' button. A list of projects is shown, with one project selected and its details displayed in a modal window. The details include Project Name, User, User Project Number, File Number, Project Type, Estimated Project Back Date, Estimated Project Start Date, Project Stage, Address, Location, and Nearest City/Country. Below the details, there are buttons for '< Go Back', 'View Project', and 'Edit Project'. The 'Edit Project' button is highlighted with a red box. At the bottom of the interface, there is a footer with the Profile PS3 logo and contact information.

MY PROJECTS

< Go Back

View Project

Edit Project

+ Add New Project

Profile PS3
PROFILE SOIL SOLUTIONS SOFTWARE

AGRONOMICS

When filling out the project information, check "yes" if you would like to obtain a free soil analysis for this project.

Once you click yes, a printable soil test form will be created.

The screenshot displays the 'Request Soil Test' form in the Profile PS3 software. The form includes the following fields and options:

- Project Name:
- User Project Number:
- File Number:
- Project Type:
- Estimated Project Start Date:
- Units: English Metric
- Estimated Project Size (Acres):
- Project Stage:
- Active:
- Project Address:
- Project City:
- Country:
- Request Soil Test: Yes No

Below the 'Request Soil Test' section, a note states: "You must check 'Yes' if you would like to obtain a FREE soil test for this project."

The background shows the software interface with a navigation menu at the top: Profile PS3, MY PROJECTS, OVERVIEW & TUTORIALS, APPLICATION CALCULATOR, PROGRAMS CALCULATOR, DOCUMENT LIBRARY, GLOSSARY, and a search icon. A 'Go Back' button is visible on the left side of the form. At the bottom right, there are links for 'Welcome', 'My Project', 'Overview & Tutorial', 'Application Calculator', 'Programs Calculator', 'Document Library', 'About', 'Contact', 'Corporate Site', and 'Help'. A 'SIGN OUT My Account' link is also present. The footer includes the Profile logo, copyright information (© 2014 PFS All Rights Reserved. Go to profile.com), and social media icons for CONNECT, YouTube, and Facebook.

AGRONOMICS

The printable soil testing input form for this project can be downloaded through the highlighted link.

The screenshot shows the Profile PS3 software interface. At the top, there are navigation tabs: HOME, MY PROJECTS, MY PROFILES, MY CHANNELS, MY SLOPES, MY REPORTS, MY SETTINGS, and MY HELP. The main content area is titled 'MY PROJECTS' and displays a list of project details for '3455-0001'. The details include: Project Name: Temp Project, User: PS3 User Testing (BASIC), Unit: Unit CH380000000, User Project Number: 001, File Number: 0017, Project Type: Sample, Estimated Project Start Date: 10/26/2017, Estimated Project End Date: 100, Project Stage: In Planning, Action: Test, Location: 1200 Neng Address, Colorado, Denver, United States, Nearest City/County: Temp City, Color: English, and Soil Tests: ProfileSoilTestInputForm_3455-0001-1.pdf. A red arrow points from the text in the white box to this link. Below the project details, there are sections for 'SLOPE LIST' and 'CHANNEL LIST'. At the bottom, there is a footer with the Profile PS3 logo, contact information, and social media links.

United States

Nearest City/County Temp City

Units English

Soil Tests [ProfileSoilTestInputForm_3455-0001-1.pdf](#)

Get help selecting the right vegetation for your project [Click here to open your plant species selection questionnaire.](#)



AGRONOMICS

The soil testing input form has sample collection instructions and packing/shipping guidance.

 <i>Solutions for your Environment™</i>		Profile Soil Analysis Laboratory 300 Speedway Circle, Suite 2 Lincoln, NE 68502 800-508-8681		Master Account No. 2861310 Report Type: Soil Test Input
		Report No. 3455-0001-1		
Project Name:		Temp Project		
Project City:		Denver		
Project State:		Colorado, United States		
Date Samples Shipped:				
Sample No.	Sample Description	Location of Sample	Lab Use Only	
1				
2				

AGRONOMICS

Once the soil analysis results are complete, you will be emailed and then can login, view the project and click on the highlighted link to view/print your results.

The screenshot shows the Profile PS3 software interface. At the top, there are navigation tabs: MY PROJECTS, MY FAVORITES, MY CHANNELS, MY CALCULATORS, MY REPORTS, MY LIBRARY, and MY ACCOUNT. The main content area displays project details for Project 2161-0073. A callout box highlights the following information:

- Nearest City/County: Dane
- Units: Metric
- Soil Tests: Results from Form 2161-0073-1

Below the callout box, there are two tables: SCOPE LIST and CHANNEL LIST.

Name	Action
Material Scope	View Compare
Material Scope 2	View Compare
Temperature 1	View Compare
Material Scope Limited Access	View Compare
Temperature Blue	View Compare

Channel	Action
Temperature Channel 1	View Compare
Temperature Channel	View Compare

At the bottom of the interface, there are logos for Profile and PS3, along with a copyright notice: Copyright © 2014, Profile Soil Solutions, Inc. All rights reserved. There is also a CONTACT button and social media icons for Facebook and Twitter.

AGRONOMICS

A summary of the soil testing results are provided along with the appropriate Prescriptive Agronomic Formulations to help ensure your project establishes vegetation.

SOIL NEUTRALIZER AND GROWTH STIMULANT PRODUCT RECOMMENDATIONS BASED ON SOIL ANALYSIS

Sample (#)	Aqua-pHix™ (gal/acre)	NeutraLime™ ³ (lb/acre)	JumpStart™ (gal/acre)	BioPrime™ (lb/acre)	Soluble Gypsum (lb/acre)	ProGanics™ BSM (lb/acre)
1	0	160	2.5	80	500	4500
2	0	0	3.75	120	---	4500

SOIL ANALYSIS RESULTS

Sample (#)	Texture (USDA)	Sand (%)	Silt (%)	Clay (%)	Soil pH (6.3 - 7.3)	TDS ¹ (ppm) (< 256)	SAR ² (< 2)	Organic Matter (%) (3 - 5%)	CEC % Sodium ⁴ (%) (< 2%)
1	Sand	90.4	4.8	4.8	5.1	486.4	0.2	0.8	3.2
2	Sandy Loam	72.4	24.8	2.8	7.2	1792	0.3	1	0.1

(Optimum Plant Growth Conditions)

Sample (#)	NO ₃ ⁻ (lb/acre) ⁵	PO ₄ ⁻³ (lb/acre) ⁵	K (lb/acre) ⁵	Ca (lb/acre) ⁵	Mg (lb/acre) ⁵	Zn (lb/acre) ⁵	Mn (lb/acre) ⁵	Cu (lb/acre) ⁵	Fe (lb/acre) ⁵	B (lb/acre) ⁵	SO ₄ ⁻² (lb/acre) ⁵
1	2.94	1.04	11.73	460	24.31	0.2	0	0.4	89.2	0.4	608.06
2	7.64	0.62	25.80	25468	87.25	0.4	0	0.6	56.6	4.6	2753.08

Notes: 1. Total Dissolved Solids, 2. Sodium Absorption Ratio, 3. NeutraLime is also available in a liquid form, please contact a Profile representative with questions. 4. Sodium as % Base Saturation Cation Exchange Capacity (CEC), 5. lb/acre associated with a 4-inch depth.



SOIL TEST RESULTS

Project: 224107-1

Project Name: Misc

Project Number: 1017

File #: 1017

Location: 123

Client: ABC COMPANY

Order Number: 1017-101

Name: TEST 101

SOIL SAMPLE LOCATIONS AND DESCRIPTIONS

Sample #	Location	Description
1	MIDDLE	SANDY LOAM FILL
2	BOTTOM	SANDY LOAM FILL

SOIL NEUTRALIZER AND GROWTH STIMULANT PRODUCT RECOMMENDATIONS BASED ON SOIL ANALYSIS

Sample #	Aqua-pHix™ (lb/acre)	NeutraLime™ (lb/acre)	JumpStart™ (lb/acre)	BioPrime™ (lb/acre)	Soluble Gypsum (lb/acre)	ProGanics™ BSM (lb/acre)
1	0	160	2.5	80	500	<100
2	0	0	3.75	120	---	<100

SOIL ANALYSIS RESULTS

Sample #	Texture (USDA)	Sand (%)	Silt (%)	Clay (%)	Soil pH (6.3 - 7.3)	TDS ¹ (ppm) (< 256)	SAR ² (< 2)	Organic Matter (%) (3 - 5%)	CEC % Sodium ⁴ (%) (< 2%)
1	Sand	90.4	4.8	4.8	5.1	486.4	0.2	0.8	3.2
2	Sandy Loam	72.4	24.8	2.8	7.2	1792	0.3	1	0.1

Sample #	NO ₃ ⁻ (lb/acre) ⁵	PO ₄ ⁻³ (lb/acre) ⁵	K (lb/acre) ⁵	Ca (lb/acre) ⁵	Mg (lb/acre) ⁵	Zn (lb/acre) ⁵	Mn (lb/acre) ⁵	Cu (lb/acre) ⁵	Fe (lb/acre) ⁵	B (lb/acre) ⁵	SO ₄ ⁻² (lb/acre) ⁵
1	2.94	1.04	11.73	460	24.31	0.2	0	0.4	89.2	0.4	608.06
2	7.64	0.62	25.80	25468	87.25	0.4	0	0.6	56.6	4.6	2753.08

Notes: 1. Total Dissolved Solids, 2. Sodium Absorption Ratio, 3. NeutraLime is also available in a liquid form, please contact a Profile representative with questions. 4. Sodium as % Base Saturation Cation Exchange Capacity (CEC), 5. lb/acre associated with a 4-inch depth.

GENERAL FERTILIZATION GUIDANCE

- Use a starter fertilizer high in Phosphorus, apply 40 to 80 lb/acre depending on the plant species for establishment.
- Control soil moisture to keep soil temperature at 60°F and available for your annual plants.
- Nitrogen should be added for Nitro or Nitro-Mix if you should be followed by a local agricultural or for a making any general fertilization recommendations.

INSTRUCTIONS/GUIDANCE/NOTES

- Supplementary Agriculture or a Published Lime application may be necessary in acidic soils. Contact Profile Technical Services at 800-441-4444 for additional information.
- The maximum rate for Aqua-pHix application with sand is 500 gal/acre water to 1 part Aqua-pHix. For example, do not mix more than 50 gal/acre of Aqua-pHix to 500 gal/acre of sand. Higher water rates will result in less available Aqua-pHix.
- Water into Aqua-pHix well in place.
- Aqua-pHix will not work if applied to wet ground. Should apply Aqua-pHix to the soil with 800 gal of water per acre, and 1.5 inches of water on top as a result. These come back with rainfall, wind and snow events.



ADD A SLOPE

Open the project you would like to create a slope for.

Create the slope by clicking the "Add Slope" button.

The screenshot displays the Profile PS3 software interface. At the top, there is a navigation menu with options: HOME, MY PROJECTS, HYDROLOGY, TRENDS, APPLICATION CALCULATOR, CHANNEL CALCULATOR, CHANNEL TRENDS, and GO HOME. Below the menu, the 'MY PROJECTS' section is active, showing a table of project details. A red box highlights the 'Add Slope' button in the 'SLOPE LIST' section. The 'CHANNEL LIST' section also has an 'Add Channel' button. The interface includes a navigation menu at the top, a project details table, and a footer with contact information.

Project	2438-0001
Project Name	Temp Project
User	PS3 User Testing (Basic)
Unit	us
Est. CH#	1000000000
Est. CH#	1000000000
User Project Number	001
File Number	0017
Project Type	Sample
Estimated Project Start Date	10/26/2017
Estimated Project End Date	100
Project Stage	In Planning
Active	Yes
Created	10/26/2017 1:00:00 PM

SLOPE LIST + Add Slope **CHANNEL LIST** + Add Channel

No slopes have been added

No channels have been added

Profile PS3
PROFILE SOIL SOLUTIONS SOFTWARE

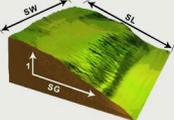
Copyright © 2014-2017 All Rights Reserved. Go to [www.profile-soil.com](#)

SLOPE INPUT

Input the necessary information to determine the most appropriate erosion control products for your slope.

Click the “Save” button to calculate.

Click on any of the “?” to get more information.



Slope Name

Functional Longevity

Supporting Practices Factor (P)

Soil Density (Y) lb/ft³

Thawing Soils? Yes No

Soil Loss Limit (SLL) in

Slope Length (SL) ft

Slope Gradient (SG) H:1 V

Slope Width (SW) ft

Soil Type (K Factor)

Expected Final Cover Type

Rainfall Factor (R)

Desired Growth Improvement Factor (G)

Tank Size gal

SLOPE INPUT

Type in the name of the slope.

Choose an appropriate functional longevity. Review the “?” for more details.

Slope Name: Temporary Slope ?

Functional Longevity: 6 - 12 months ?

Supporting Practices Factor (P): Loose - Disked Plow Layer (1.0) ?

Soil Density (Y): 92 lb/ft³ ?

Thawing Soils? Yes No ?

Soil Loss Limit (SLL): 0.01 in ?

Slope Length (SL): 50 ft ?

Slope Gradient (SG): 3H:1V H:1 V ?

Slope Width (SW): 1000 ft ?

Soil Type (K Factor): Sandy Loam ?

Expected Final Cover Type: Veg. Open Space - Fair Cond. (cover 50% to 75%)

Rainfall Factor (R): 30.6 ?

Desired Growth Improvement Factor (G): 100% ?

Tank Size: 1000 gal ?

SLOPE INPUT

Choose an appropriate supporting practices factor. This is basically how your slope will be prepared. Review the “?” for more details.

A default value of 92 lb/ft³ is provided as an average value. Unless specific information is available, it is recommended to use the default value.

The screenshot shows a form for entering slope parameters. The following table summarizes the visible fields and their values:

Field Name	Value	Unit
Slope Name	Temporary Slope	
Functional Longevity	6 - 12 months	
Supporting Practices Factor (P)	Loose - Disked Plow Layer (1.0)	
Soil Density (Y)	92	lb/ft ³
Thawing Soils?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Soil Loss Limit (SLL)	0.01	in
Slope Length (SL)	50	ft
Slope Gradient (SG)	3H:1V	H:1 V
Slope Width (SW)	1000	ft
Soil Type (K Factor)	Sandy Loam	
Expected Final Cover Type	Veg. Open Space - Fair Cond. (cover 50% to 75%)	
Rainfall Factor (R)	30.6	
Desired Growth Improvement Factor (G)	100%	
Tank Size	1000	gal

Red boxes highlight the 'Supporting Practices Factor (P)' and 'Soil Density (Y)' fields. Red arrows point from the text boxes on the left to these fields.

SLOPE INPUT

Select whether or not your soils are thawing.

The default value for the soil loss limit is 0.01, which would allow 3340 lbs/acre to be eroded on the site over a year. Lower values would allow less soil erosion over a year and higher values would yield more erosion over a year.

The screenshot shows a web-based form for entering slope parameters. The fields are as follows:

- Slope Name: Temporary Slope
- Functional Longevity: 6 - 12 months
- Supporting Practices Factor (P): Loose - Disked Plow Layer (1.0)
- Soil Density (Y): 92 lb/ft³
- Thawing Soils?: Yes No
- Soil Loss Limit (SLL): 0.01 in
- Slope Length (SL): 50 ft
- Slope Gradient (SG): 3H:1V H:1 V
- Slope Width (SW): 1000 ft
- Soil Type (K Factor): Sandy Loam
- Expected Final Cover Type: Veg. Open Space - Fair Cond. (cover 50% to 75%)
- Rainfall Factor (R): 30.6
- Desired Growth Improvement Factor (G): 100%
- Tank Size: 1000 gal

Red arrows from the text boxes on the left point to the "Thawing Soils?" field and the "Soil Loss Limit (SLL)" field.

Input the slope length, gradient and width.

Use the soil type reported from your soil testing results or choose a soil type based on the information provided in the table when you click the “?”.

Select the most appropriate final cover condition from the drop down list.

SLOPE INPUT

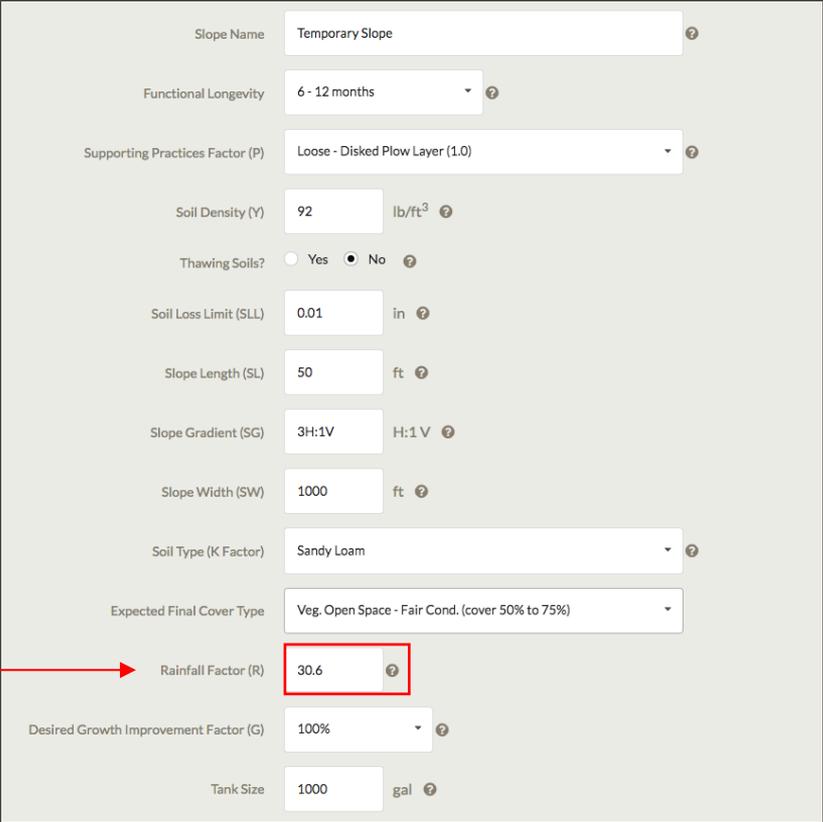
The screenshot shows a web form for 'SLOPE INPUT' with the following fields and values:

- Slope Name: Temporary Slope
- Functional Longevity: 6 - 12 months
- Supporting Practices Factor (P): Loose - Disked Plow Layer (1.0)
- Soil Density (Y): 92 lb/ft³
- Thawing Soils?: Yes No
- Soil Loss Limit (SLL): 0.01 in
- Slope Length (SL): 50 ft
- Slope Gradient (SG): 3H:1V H:1 V
- Slope Width (SW): 1000 ft
- Soil Type (K Factor): Sandy Loam
- Expected Final Cover Type: Veg. Open Space - Fair Cond. (cover 50% to 75%)
- Rainfall Factor (R): 30.6
- Desired Growth Improvement Factor (G): 100%
- Tank Size: 1000 gal

Red boxes highlight the following fields: Slope Length (SL), Slope Gradient (SG), Slope Width (SW), Soil Type (K Factor), and Expected Final Cover Type. Red arrows point from the text boxes on the left to these highlighted fields.

SLOPE INPUT

Once the user has selected a state and the nearest city, an R-Factor will be listed. Since not all U.S. cities are listed, the nearest city may be somewhat distant. In the case the nearest city is quite distant, it may be appropriate to evaluate several of the closest cities and average R-Factor values and input this value.



Slope Name	Temporary Slope	?
Functional Longevity	6 - 12 months	?
Supporting Practices Factor (P)	Loose - Disked Plow Layer (1.0)	?
Soil Density (Y)	92	lb/ft ³ ?
Thawing Soils?	<input type="radio"/> Yes <input checked="" type="radio"/> No	?
Soil Loss Limit (SLL)	0.01	in ?
Slope Length (SL)	50	ft ?
Slope Gradient (SG)	3H:1V	H:1 V ?
Slope Width (SW)	1000	ft ?
Soil Type (K Factor)	Sandy Loam	?
Expected Final Cover Type	Veg. Open Space - Fair Cond. (cover 50% to 75%)	
Rainfall Factor (R)	30.6	?
Desired Growth Improvement Factor (G)	100%	?
Tank Size	1000	gal ?

Choose a growth establishment factor that best suits the project timelines and vegetation establishment needs.

Input the appropriate tank size for your anticipated hydro seeding machine. The default value is 1000 gallons and leave it alone if you are unsure or do not anticipate the use of HECPs.

SLOPE INPUT

Slope Name	Temporary Slope	?
Functional Longevity	6 - 12 months	?
Supporting Practices Factor (P)	Loose - Disked Plow Layer (1.0)	?
Soil Density (Y)	92	lb/ft ³ ?
Thawing Soils?	<input type="radio"/> Yes <input checked="" type="radio"/> No	?
Soil Loss Limit (SLL)	0.01	in ?
Slope Length (SL)	50	ft ?
Slope Gradient (SG)	3H:1V	H:1 V ?
Slope Width (SW)	1000	ft ?
Soil Type (K Factor)	Sandy Loam	?
Expected Final Cover Type	Veg. Open Space - Fair Cond. (cover 50% to 75%)	
Rainfall Factor (R)	30.6	?
Desired Growth Improvement Factor (G)	100%	?
Tank Size	1000	gal ?

SLOPE INPUT

Once you have entered all the necessary slope information, click the “Save” button to calculate.

Make sure to scroll down in order to view the results.

Slope Name	Temporary Slope	?
Functional Longevity	6 - 12 months	?
Supporting Practices Factor (P)	Loose - Disked Plow Layer (1.0)	?
Soil Density (Y)	92	lb/ft ³ ?
Thawing Soils?	<input type="radio"/> Yes <input checked="" type="radio"/> No	?
Soil Loss Limit (SLL)	0.01	in ?
Slope Length (SL)	50	ft ?
Slope Gradient (SG)	3H:1V	H:1 V ?
Slope Width (SW)	1000	ft ?
Soil Type (K Factor)	Sandy Loam	?
Expected Final Cover Type	Veg. Open Space - Fair Cond. (cover 50% to 75%)	?
Rainfall Factor (R)	30.6	?
Desired Growth Improvement Factor (G)	100%	?
Tank Size	1000	gal ?
	<input type="button" value="SAVE"/>	<input type="button" value="Delete"/>

SLOPE DETAILS / RESULTS

Click on any of the products to view more details as shown to the right for "Flexterra."

Click on "Documents" to see all Flexterra documents, "Printable Report" to view a printable summary report, or "Comparison" to view details for two products side by side.

Product Selection

Click on a product in the list below to view application detail

Acceptable HECPs

Product	Factor of Safety (FS)
CocoFlex	>10
Flexterra HP-FGM	>10
Hydro-Blanket	7.3
ProMatrix EFM	7.3
Terra-Matrix	3.6
Seed Aide Aero	2

Acceptable TRMs

Product	Factor of Safety (FS)
GreenArmor 7010	>10
GreenArmor 7020	>10
GreenArmor R45	>10
GreenArmor 7003	>10

HECP Product Application

Flexterra HP-FGM

Product C-Factor	0.001
Factor of Safety (FS)	>10
Annual Soil Loss (with Product)	9 lb/acre, 0 in
Annual Soil Loss (without Product)	9208 lb/acre, 0.0276 in

Functional Longevity	≤18 Months
Growth Establishment Factor	800%
Suggested Application Rate	3000 lb/acre
Job Size	0.034 acres

of Tanks per Acre

10.89

Estimated # of Bags

3

of Bags per Tank

8

Total # of Tanks

0.4

[Documents](#) | [Printable Report](#) | [Comparison](#)

The screenshot displays the Profile PS3 software interface for a slope analysis. At the top, there are navigation tabs: Home, Products, Services, Tools, Reports, Settings, and Help. The main content area is titled 'ADJUST SLOPE' and features a 3D visualization of a slope. Below the visualization, there is a table of product selection and a table of HECP product application details. The 'Flexterra HP-FGM' product is highlighted in the product selection table. The HECP application table shows a Factor of Safety (FS) of >10, an Annual Soil Loss of 9 lb/acre, and a Total # of Tanks of 0.4. The interface also includes navigation tabs for 'Documents', 'Printable Report', and 'Comparison'.

FLEXTERRA DOCUMENTS

Folders

- Document Library
 - Accessories
 - DECPs - Dry-Applied Erosion Control Products
 - Golf - PPC - Profile Porous Ceramics
 - HECPs - Hydraulically-Applied Erosion Control Products
 - ADC - Alternate Daily Cover
 - BFMs - Bonded Fiber Matrices
 - FGMs - Flexible Growth Media
 - CocoFlex ET-FGM
 - EcoFlex HP-FGM
 - Flexterra HP-FGM**
 - HMs - Hydraulic Mulchs
 - SMMs - Stabilized Mulch Matrices
 - SSs - Soil Stabilizers
 - EFM - Engineered Fiber Matrices
 - PAFs - Prescriptive Agronomic Formulations
 - RECPs - Rolled Erosion Control Products
 - SCPs - Sediment Control Products
 - Turfce - Sports Field Conditioners

Files

- A000-031541-3_Internat ESP_11-19-1...
- A008-026304_Flexterra HP SS_4-10-13...
- A008-031296_South Pacific Nickel Mi...
- A008-039141-5_AirportSellSht_web.pd...
- A018-035268-4_flexterra_hp_bro-rus_...
- A018-036170_Pipeline Res Sol CS_7-...
- A018-039333-5_SochiCaseStudy_Web.pd...
- A018-039526-5_Hwy20-CS_Short-Verson...
- Airfield Projects_A018-45436.pdf
- Article Better Roads - Flexterra.pd...
- Blakeley Ravine CS_A018-39816_7-1-1...
- Brochure - Flexterra HP-FGM.pdf
- CA Approval Letter - Flexterra.pdf
- CAD Details Slope - Flexterra HP-FG...
- CAD Details Slope - Flexterra HP-FG...
- Case Study - Avalon, CA - Landslide...
- Case Study - Highway 154, CA - Road...
- Case Study - Highway 290, SC - Road...
- Case Study - New Brunswick, Canada ...
- Case Study - Raleigh, NC - M&E W...

ADD A CHANNEL

Open the project you would like to create a channel for.

Create the channel by clicking the “Add Channel” button.

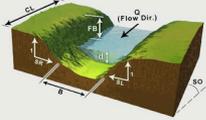
The screenshot displays the Profile PS3 software interface. At the top, there is a navigation bar with various icons and the text 'MYPROJECTS'. Below this, a project information panel shows details such as Project ID (2438-0001), Project Name (Temp Project), User (PS3 User Testing Demo@PS3), and Project Stage (In Planning). A red arrow points from the 'Add Channel' button in the 'CHANNEL LIST' section to the 'Add Channel' button in the project information panel. The 'SLOPE LIST' section shows 'No slopes have been added' and the 'CHANNEL LIST' section shows 'No channels have been added'. The bottom of the interface features a footer with the Profile PS3 logo, contact information, and social media links.

CHANNEL INPUT

Input the necessary information to determine the most appropriate product for channel stabilization.

Click the "Save" button to calculate.

As a reminder, click on any of the "?" to get more information.



Channel Name

Channel Shape **Trapezoidal** ⓘ

Functional Longevity **>36 months** ⓘ

Existing Soil Description **Silty Clay Loam** ⓘ

Flow **Discharge (Q)** **ft³/s** ⓘ

Bottom Width (B) **ft** ⓘ

Right Side Slope (SR) **H:1V** ⓘ

Left Side Slope (SL) **H:1V** ⓘ

Longitudinal Channel Slope (SO) **ft/ft** ⓘ

Retardance Class **C** ⓘ

Grass Growth Form **Sod** ⓘ

Cover Density **Very Good (80-90%)** ⓘ

Channel Length (CL) **ft** ⓘ

Required Freeboard (FB) **1** **ft** ⓘ

Channel Bend Yes No

Tank Size **1000** **gal** ⓘ

SAVE Delete

Type in the name of the channel.

Choose the appropriate channel shape from the drop down list: Trapezoidal, V-Shaped or Rectangular.

Choose an appropriate functional longevity. Review the “?” for more details.

Choose the most appropriate existing soil condition for your channel

CHANNEL INPUT

The screenshot shows a web-based form for channel input. Red arrows from the instructional text boxes on the left point to the following fields in the form:

- Channel Name: Temporary Channel 1
- Channel Shape: Trapezoidal
- Functional Longevity: 3 - 6 months
- Existing Soil Description: Sandy Loam

Other fields in the form include:

- Flow: Discharge (Q) 100 ft³/s
- Bottom Width (B): 25 ft
- Right Side Slope (SR): 3 H:1V
- Left Side Slope (SL): 3 H:1V
- Longitudinal Channel Slope (SO): .001 ft/ft
- Retardance Class: C
- Grass Growth Form: Sod
- Cover Density: Very Good (80-90%)
- Channel Length (CL): 1000 ft
- Required Freeboard (FB): 1 ft
- Channel Bend: No (selected)
- Tank Size: 1000 gal

Choose either Flow Rate or Flow Depth and enter the corresponding value.

Enter the necessary geometric and slope information for the channel.

Choose a retardance class from the table associated with the “?”.

The vegetation must be classified as Sod (sod forming grass), Bunch (bunch forming grass) or Mixed (combination of Sod and Bunch) as available from the drop down list.

CHANNEL INPUT

The screenshot shows a software interface for channel input. The form contains the following fields and values:

- Channel Name: Temporary Channel 1
- Channel Shape: Trapezoidal
- Functional Longevity: 3 - 6 months
- Existing Soil Description: Sandy Loam
- Flow: Discharge (Q) 100 ft³/s
- Bottom Width (B): 25 ft
- Right Side Slope (SR): 3 H:1V
- Left Side Slope (SL): 3 H:1V
- Longitudinal Channel Slope (SO): .001 ft/ft
- Retardance Class: C
- Grass Growth Form: Sod
- Cover Density: Very Good (80-90%)
- Channel Length (CL): 1000 ft
- Required Freeboard (FB): 1 ft
- Channel Bend: No
- Tank Size: 1000 gal

Red boxes and arrows highlight the following fields:

- Flow: Discharge (Q) 100 ft³/s
- Bottom Width (B) 25 ft, Right Side Slope (SR) 3 H:1V, Left Side Slope (SL) 3 H:1V, and Longitudinal Channel Slope (SO) .001 ft/ft
- Retardance Class: C
- Grass Growth Form: Sod

A qualifier of Excellent, Very Good, Good, Fair and Poor are used to distinguish various levels of quality. Stands of vegetation classified as excellent should demonstrate > 90% total coverage with virtually all the vegetation healthy and full height. Stands of vegetation classified as poor will appear sparse with many bare areas and unhealthy or immature stems.

Enter the channel length.

CHANNEL INPUT

Channel Name	Temporary Channel 1	
Channel Shape	Trapezoidal	
Functional Longevity	3 - 6 months	
Existing Soil Description	Sandy Loam	
Flow	Discharge (Q)	100 ft ³ /s
Bottom Width (B)	25	ft
Right Side Slope (SR)	3	H:1V
Left Side Slope (SL)	3	H:1V
Longitudinal Channel Slope (SO)	.001	ft/ft
Retardance Class	C	
Grass Growth Form	Sod	
Cover Density	Very Good (80-90%)	
Channel Length (CL)	1000	ft
Required Freeboard (FB)	1	ft
Channel Bend	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Tank Size	1000	gal

CHANNEL INPUT

This is the amount of channel that would extend above the computed channel depth. It is used as a safety measure to ensure that the channel is not overtopped.

Does the channel have a bend? If you check "Yes," the Bend Radius field appears. Rolling over the "?" next to the field brings up the drawing.

Channel Name: Temporary Channel 1

Channel Shape: Trapezoidal

Functional Longevity: 3 - 6 months

Existing Soil Description: Sandy Loam

Flow: Discharge (Q) 100 ft³/s

Bottom Width (B): 25 ft

Right Side Slope (SR): 3 H:1V

Left Side Slope (SL): 3 H:1V

Longitudinal Channel Slope (SO): .001 ft/ft

Retardance Class: C

Grass Growth Form: Sod

Cover Density: Very Good (80-90%)

Channel Length (CL): 1000 ft

Required Freeboard (FB): 1 ft

Channel Bend: Yes No

Tank Size: 1000 gal

Callout window fields:
Retardance Class: C
Grass Growth Form: Sod
Cover Density: Very Good (80-90%)
Channel Length (CL): 1000 ft
Required Freeboard (FB): 1 ft
Channel Bend: Yes No
Bend Radius (Rc): 50 ft
Tank Size: 1000 gal
Buttons: SAVE, Delete

CHANNEL INPUT

Once you have entered all the necessary channel information, click the “Save” button.

Make sure to scroll down in order to view the results.



Cover Density Very Good (80-90%) ?

Channel Length (CL) 1000 ft ?

Required Freeboard (FB) 1 ft ?

Channel Bend Yes No

Tank Size 1000 gal ?

SAVE Delete

CHANNEL DETAILS / RESULTS

Click on any of the products to view more details as shown to the right for "GreenArmor 7020."

Click on "Documents" to see all GreenArmor 7020 documents, "Printable Report" to view a printable summary report, or "Comparison" to view details for two products side by side.

Product Selection

Click on a product in the list below to view application detail

TRMs

Product	Factor of Safety (FS)	
	Unvegetated	Vegetated
GreenArmor R45	> 10	> 10
GreenArmor 7020	> 10	> 10
GreenArmor 7010	> 10	> 10
GreenArmor 7003	> 10	> 10
Futerra 7020 TRM - Soil Filled	> 10	> 10
Futerra R45 TRM - Soil Filled	> 10	> 10
Futerra 7010 TRM - Soil Filled	> 10	> 10
Futerra 7003 TRM - Soil Filled	7	> 10

Notes

- Products listed in red do not satisfy both the unvegetated and vegetated project conditions. It is recommended to select a product that satisfies both the unvegetated and vegetated project conditions.

TRM Product Application

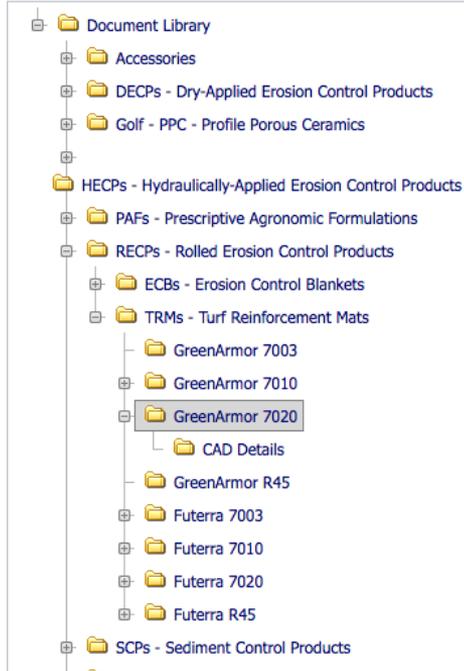
GreenArmor 7020	
Unveg. Solved Depth, du	1.12 ft
Unveg. Product Roughness, nu	0.015
Unveg. Flowrate, Q	99.95 ft ³ /s
Unveg. Velocity, V	3.14 ft/s
Maximum Unveg. Shear, TMU	0.07 lb/ft ²
Unveg. Factor of Safety, FSU	>10
Veg. Solved Depth, dv	3.28 ft
Veg. Product Roughness, nv	0.099
Veg. Flowrate, Q	99.99 ft ³ /s
Veg. Velocity, V	0.88 ft/s
Maximum Veg. Shear, TMV	0.2 lb/ft ²
Veg. Factor of Safety, FSV	>10
Functional Longevity	>36 Months
TRM Coverage Area +12%	5938 yd ²
Required Infill Product	Flexterra HP-FGM
Suggested Application Rate	3500 lb/acre
Job Size	1.095
# of Tanks per Acre	9.24
Estimated # of Bags	81
# of Bags per Tank	8
Total # of Tanks	10.1

[Documents](#) | [Printable Report](#) | [Comparison](#)

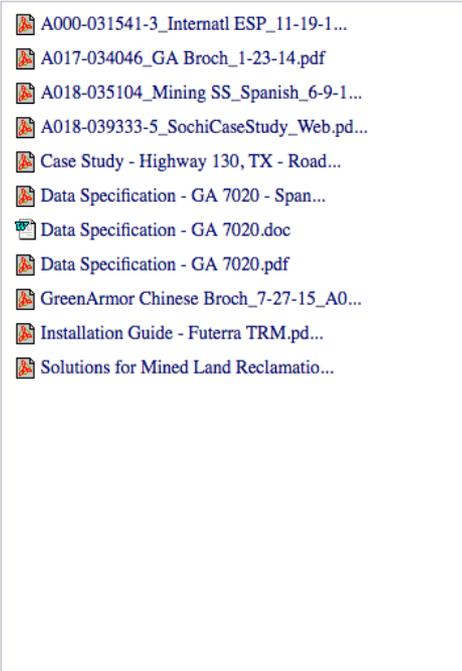
The screenshot displays the Profile PS3 software interface. At the top, there are navigation tabs for 'Profile', 'PS3', 'APPLICATOR', 'PROPOSED CHANNEL', 'PROJECT', 'REPORT', and 'HELP'. Below this, a 3D model of a channel is shown with a 'Channel Details' panel on the right. The 'Product Selection' section is highlighted, showing a table of products and their application details. The table includes columns for 'Product', 'Unvegetated FS', and 'Vegetated FS'. The 'GreenArmor 7020' product is highlighted in red, indicating it does not satisfy both conditions. Below the table, there are links for 'Documents', 'Printable Report', and 'Comparison'. The bottom of the interface features the Profile PS3 logo and contact information.

GREENARMOR 7020 DOCUMENTS

Folders



Files



REPORTS

For either slopes or channels, once a product is selected, a report can be viewed/printed by clicking the “Printable Report” link.

The reports are broken into various sections all on one page.

Product Selection

Click on a product in the list below to view application detail

Acceptable HECPs

Product	Factor of Safety (FS)
CocoFlex	>10
Flexterra HP-FGM	>10

Acceptable TRMs

Product	Factor of Safety (FS)
GreenArmor 7010	>10
GreenArmor 7020	>10
GreenArmor R45	>10
GreenArmor 7003	10

HECP Product Application

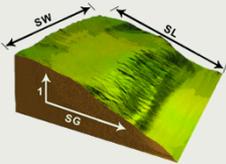
CocoFlex

Product C-Factor	0.001	?
Factor of Safety (FS)	>10	
Annual Soil Loss (with Product)	67 lb/acre, 0.0002 in	
Annual Soil Loss (without Product)	66929 lb/acre, 0.2004 in	
Functional Longevity	≤24 Months	
Growth Establishment Factor	500%	
Suggested Application Rate	3000 lb/acre	
Job Size	1.148 acres	
# of Tanks per Acre	7.95	
Estimated # of Bags	73	
# of Bags per Tank	8	
Total # of Tanks	9.1	

Documents [Printable Report](#) Comparison

REPORTS - SLOPE

[Click to Print](#)



Project Information

Project	3455-0001
* Project Name	Temp Project
Location	1234 Temp Address Denver, Colorado United States
Contact	P53 User testing
Phone	602-123-4567
Email	test101@test.com
* Project Type	Sample
Estimated Start Date	02/28/2017
* Estimated Project Size (Acres)	100
* Project Stage	2

REPORTS - SLOPE

Slope Details

Slope Name	Temporary Slope
Functional Longevity	6 - 12 months
Supporting Practices Factor (P)	Loose - Disked Plow Layer (1.0)
Soil Density (Y)	92 lb/ft ³
Thawing Soils?	No
Soil Loss Limit (SLL)	0.01 in
Slope Length (SL)	50 ft
Slope Gradient (SG)	3 H:1 V
Slope Width (SW)	1000 ft
Soil Type (K Factor)	Sandy Loam
Expected Final Cover Type	Veg. Open Space - Fair Cond. (cover 50% to 75%)
Rainfall Factor (R)	30.8
Desired Growth Improvement Factor (G)	100%
Tank Size	1000 gal

REPORTS - SLOPE

RUSLE Parameters and Runoff Discharge

Rainfall Factor (R) 30.8

Soil Erodibility Factor (K) 0.3

Topographic Factor (LS) 3.6217

Supporting Practices Factor (P) 1

Runoff Discharge 1.462 ft³/s₁

REPORTS - SLOPE

Product Selection

Click on a product in the list below to view application detail

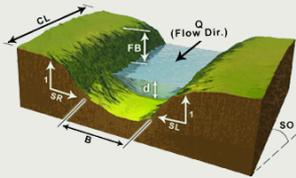
HECP Product Application

Flexterra HP-FGM

Product C-Factor	0.001	?
Factor of Safety (FS)	>10	
Annual Soil Loss (with Product)	67 lb/acre, 0.0002 in	
Annual Soil Loss (without Product)	66929 lb/acre , 0.2004 in	
Functional Longevity	≤18 Months	
Growth Establishment Factor	800%	
Suggested Application Rate	3000 lb/acre	
Job Size	1.148 acres	
# of Tanks per Acre	7.95	
Estimated # of Bags	73	
# of Bags per Tank	8	
Total # of Tanks	9.1	

REPORTS - CHANNEL

[Click to Print](#)



Project Information

Project 3455-0001
* Project Name Temp Project
Location 1234 Temp Address
Denver, Colorado
United States
Contact P53 User testing
Phone 602-123-4567
Email test101@test.com

* Project Type Sample
Estimated Start Date 02/28/2017

* Estimated Project Size (Acres) 100
* Project Stage 2



REPORTS - CHANNEL

Channel Details

Channel Name	Temporary Channel
Channel Shape	Trapezoidal
Functional Longevity	3 - 6 months
Existing Soil Description	Sandy Loam
Discharge (Q)	100 ft ³ /s
Bottom Width (B)	25 ft
Right Side Slope (SR)	3 H:1V
Left Side Slope (SL)	3 H:1V
Longitudinal Channel Slope (SO)	0.001 ft/ft
Retardance Class	C
Grass Growth Form	Sod
Cover Density	Very Good (80-90%)
Channel Length (CL)	1000 ft
Required Freeboard (FB)	1 ft
Channel Bend	No
Tank Size	1000 gal

REPORTS - CHANNEL

Selected Product Information

Name GreenArmor R45

Unveg. Solved Depth, du 1.12 ft
Unveg. Product Roughness, nu 0.015
Unveg. Flowrate, Q 99.95 ft³/s
Unveg. Velocity, V 3.14 ft/s
Maximum Unveg. Shear, TMU 0.07 lb/ft²
Unveg. Factor of Safety, FSU >10

Veg. Solved Depth, dv 3.28 ft
Veg. Product Roughness, nv 0.099
Veg. Flowrate, Q 99.99 ft³/s
Veg. Velocity, V 0.88 ft/s
Maximum Veg. Shear, TMV 0.2 lb/ft²
Veg. Factor of Safety, FSV >10

Functional Longevity >36 Months
TRM Coverage Area +12% 5938 yd²

Required Infill Product Flexterra HP-FGM
Suggested Application Rate 3500 lb/acre
Job Size 1.095
of Tanks per Acre 9.24
Estimated # of Bags 81
of Bags per Tank 8
Total # of Tanks 10.125

QUESTIONS?

Contact Profile Technical Services at:
Tech@profileproducts.com

