Advanced Training

ProfilePS3.com

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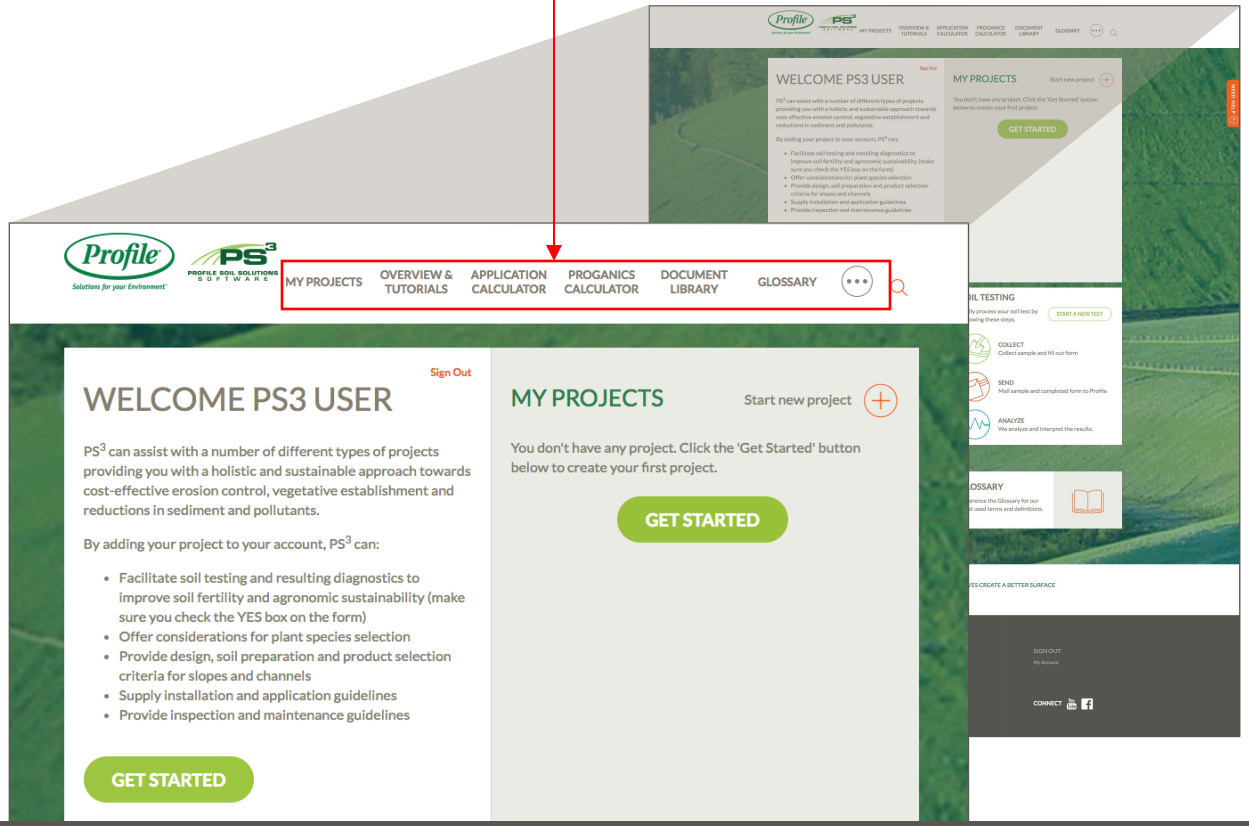
Training Module Overview

- Navigation
- PS^3 Document Library
- PS^3 Projects
  - Agronomics
  - Slopes
  - Channels
- PS^3 Reports

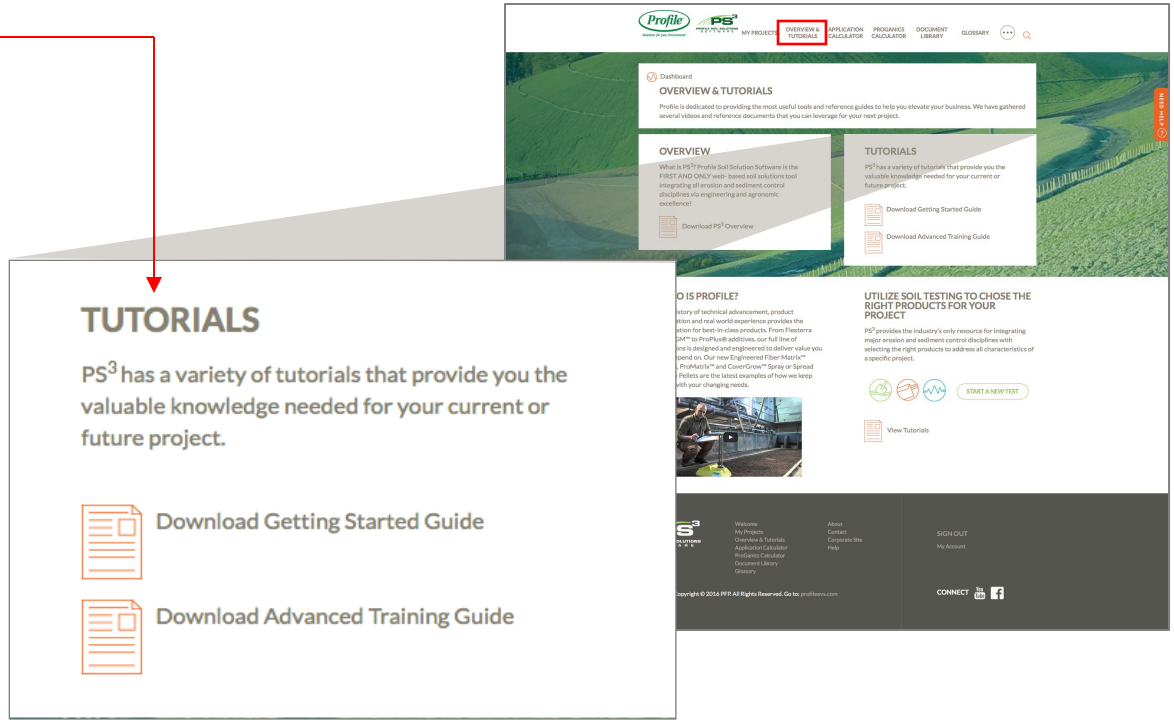
NAVIGATION – HOME PAGE

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



NAVIGATION – PS³ OVERVIEW & TUTORIALS

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



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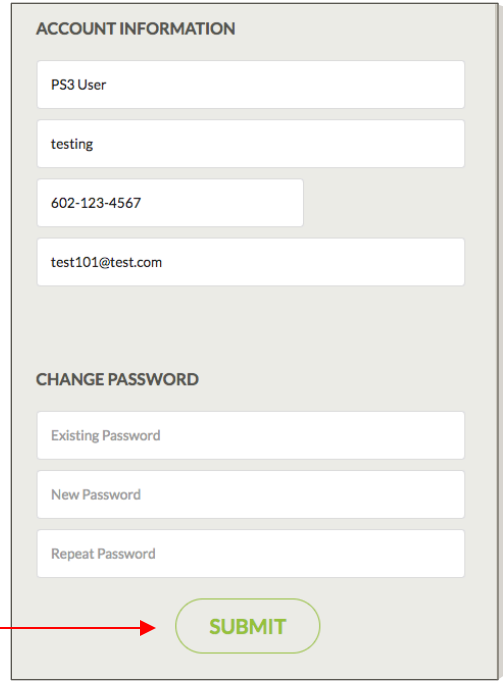
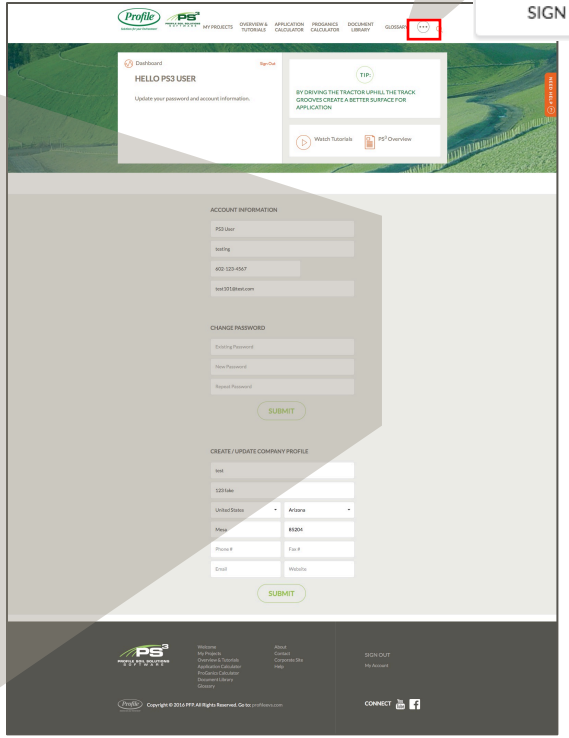
NAVIGATION – MY ACCOUNT

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.





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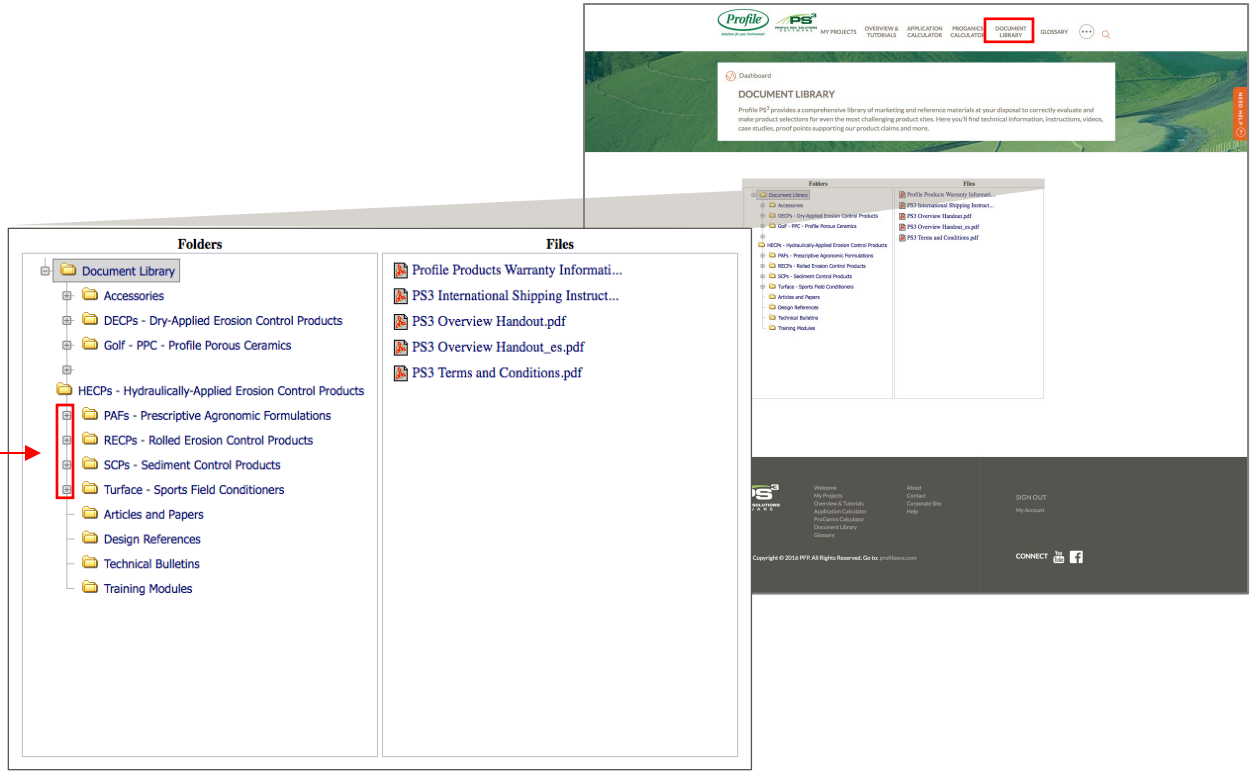
NAVIGATION – DOCUMENT LIBRARY

All available supporting information for Products used with PS^3 – 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.



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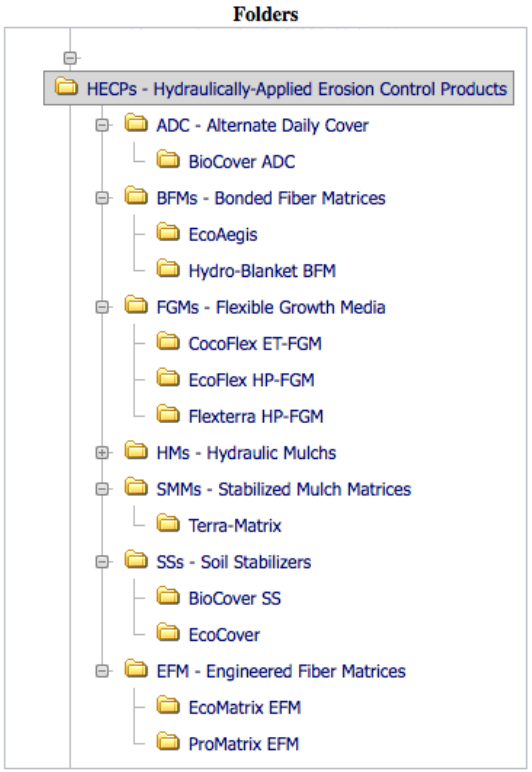
HECPs – HYDRAULICALLY-APPLIED EROSION CONTROL PRODUCTS



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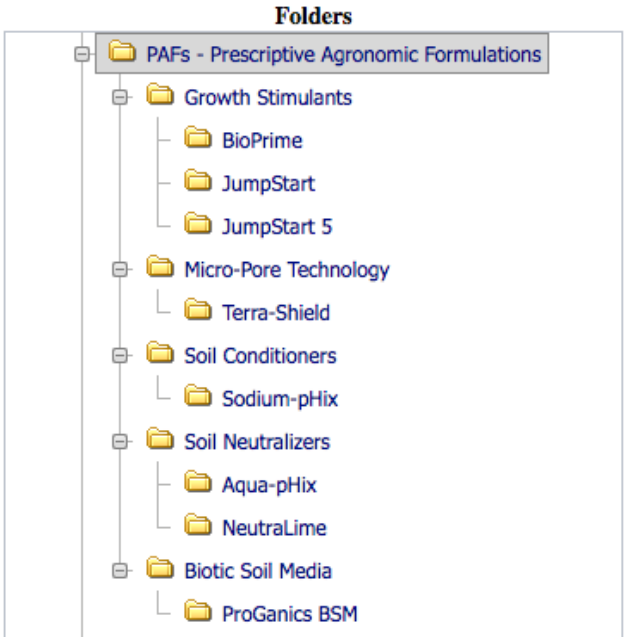
PAFs – PRESCRIPTIVE AGRONOMIC FORMULATIONS



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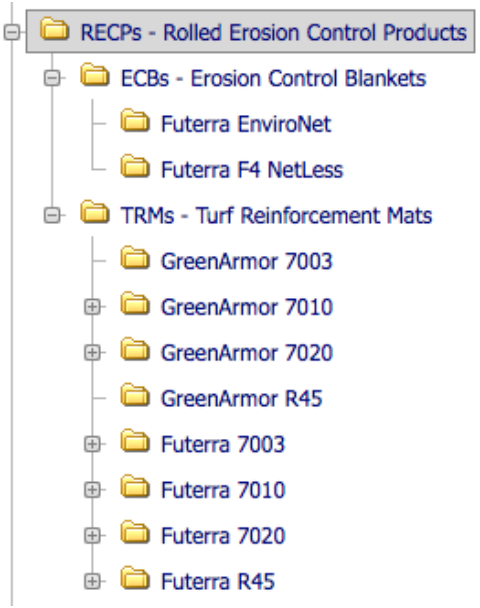
RECPs – ROLLED EROSION CONTROL PRODUCTS



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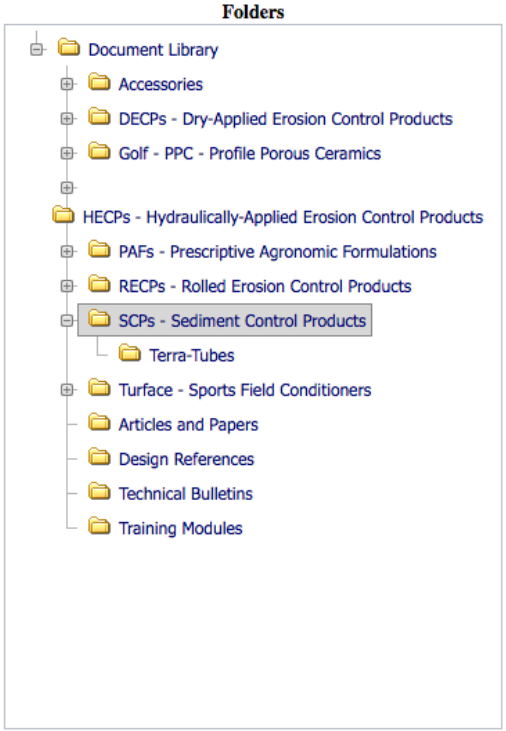
SCPs – SEDIMENT CONTROL PRODUCTS



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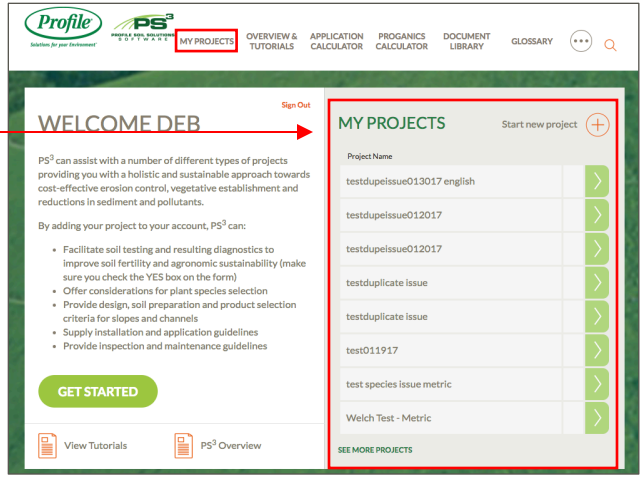
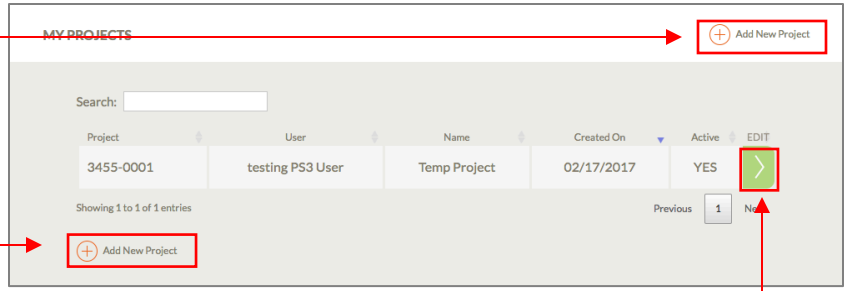
PROJECTS - HOME

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.





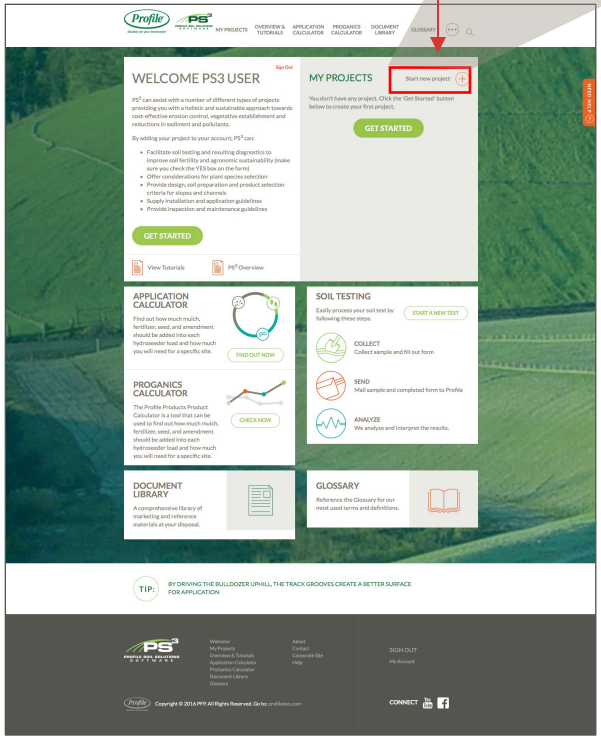
ADD PROJECT

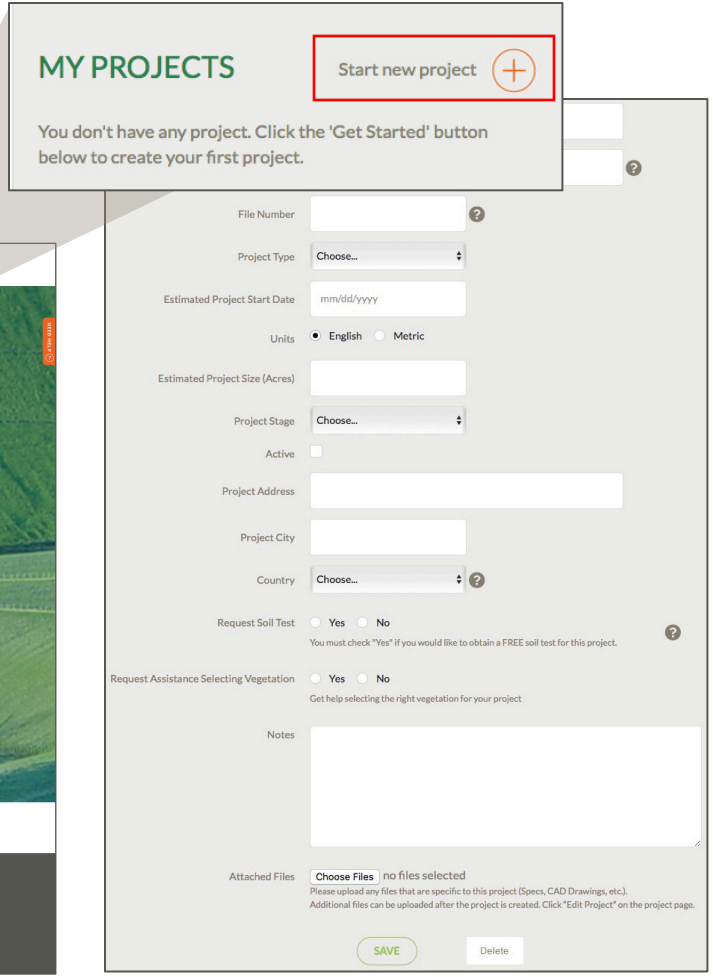
Fill in the information shown on the form.

Use the “?” icons to get more information.

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

Click here to start a new project





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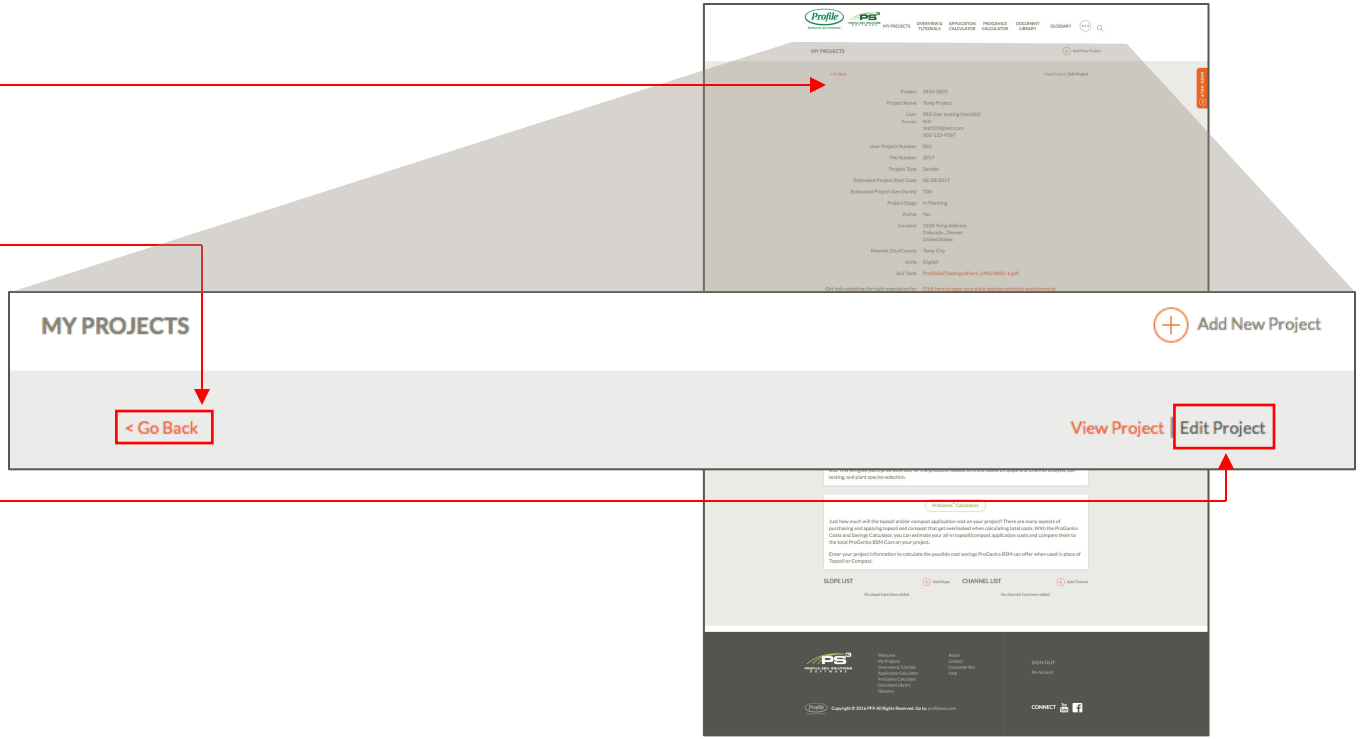
PROJECT DETAILS

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.



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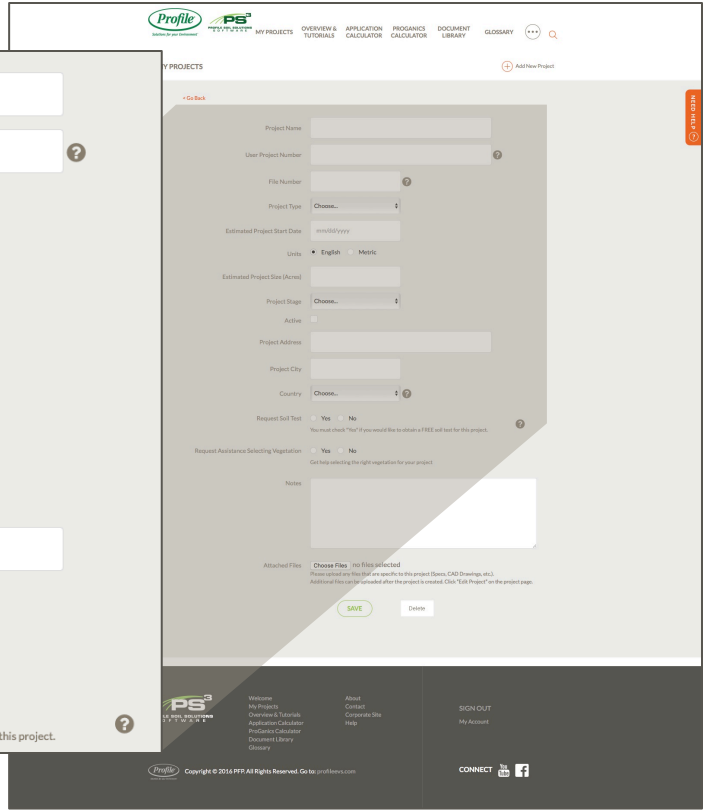
AGRONOMICS

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.



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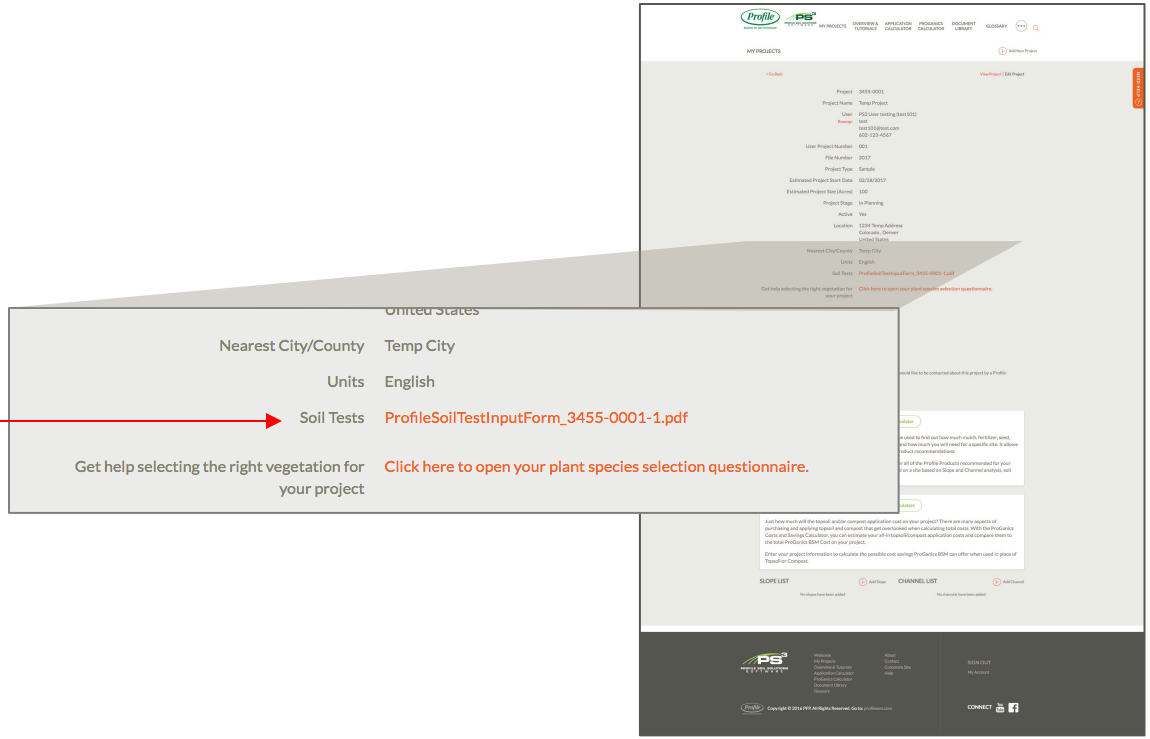
AGRONOMICS

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



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

AGRONOMICS

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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			

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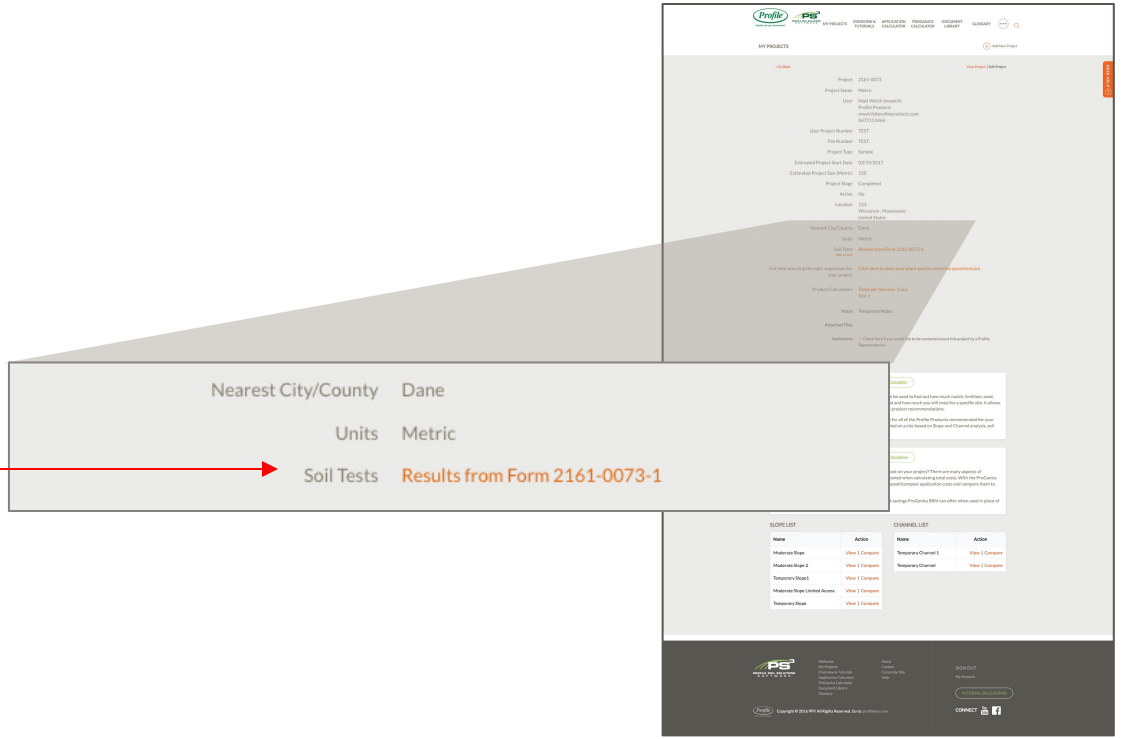
AGRONOMICS

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.



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AGRONOMICS

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

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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

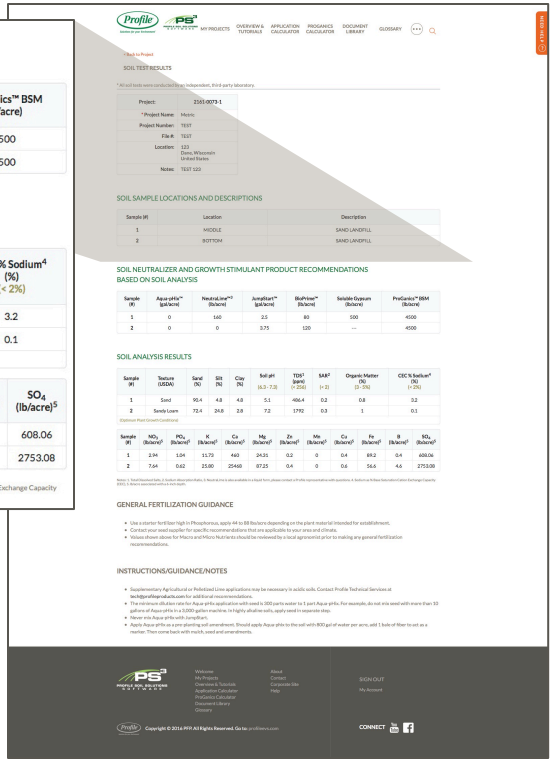
SOIL ANALYSIS RESULTS

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 (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 (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

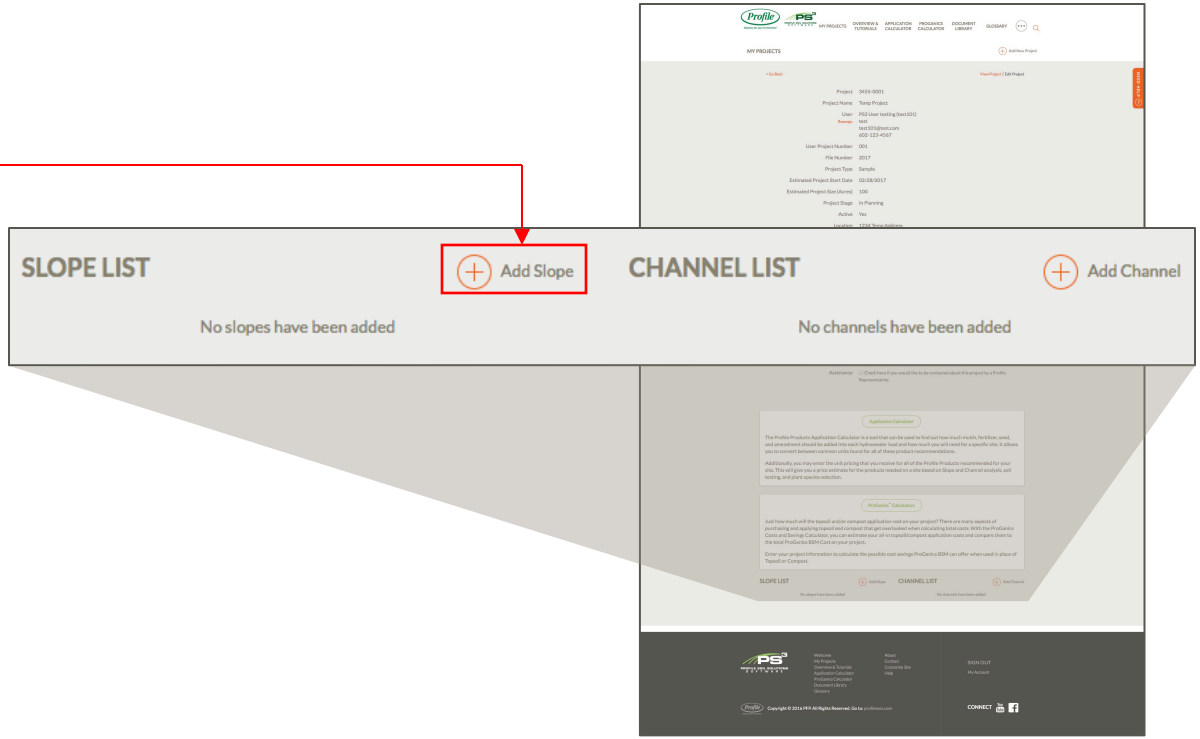
Notes: 1. Total Dissolved Salts, 2. Sodium Absorption Ratio, 3. NeutraLime is also available in a liquid form, please contact a Profile representative with questions. 4. Sodium as % Base Saturation Cation Exchange Capacity (CEC), 5. lb/acre associated with a 6-inch depth.



ADD A SLOPE

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

Create the slope by clicking the “Add Slope” button.



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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.

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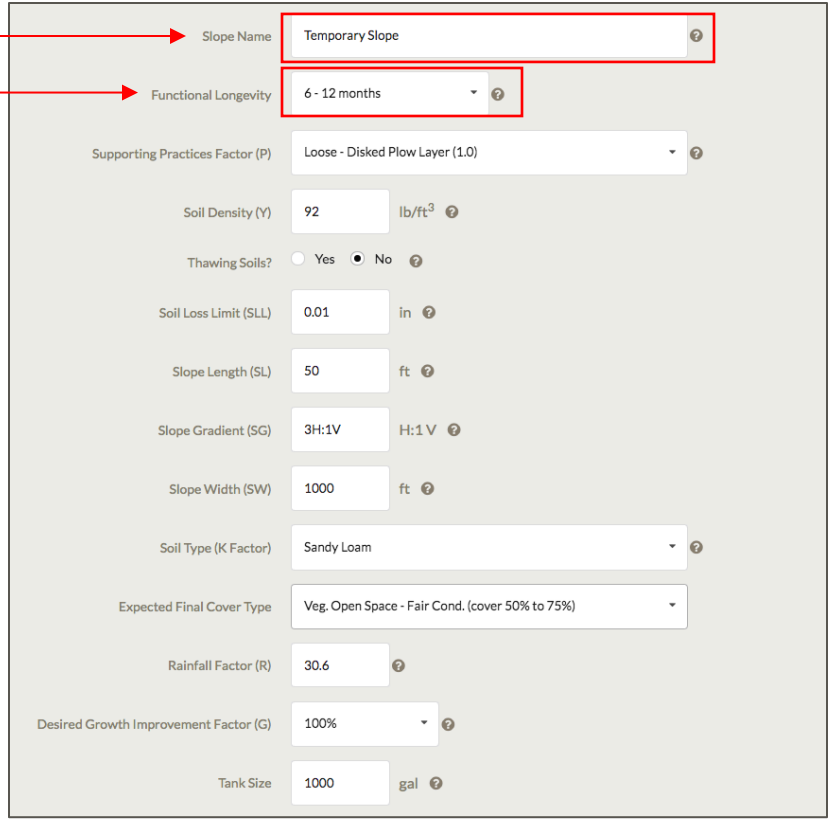
SLOPE INPUT

Type in the name of the slope.

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



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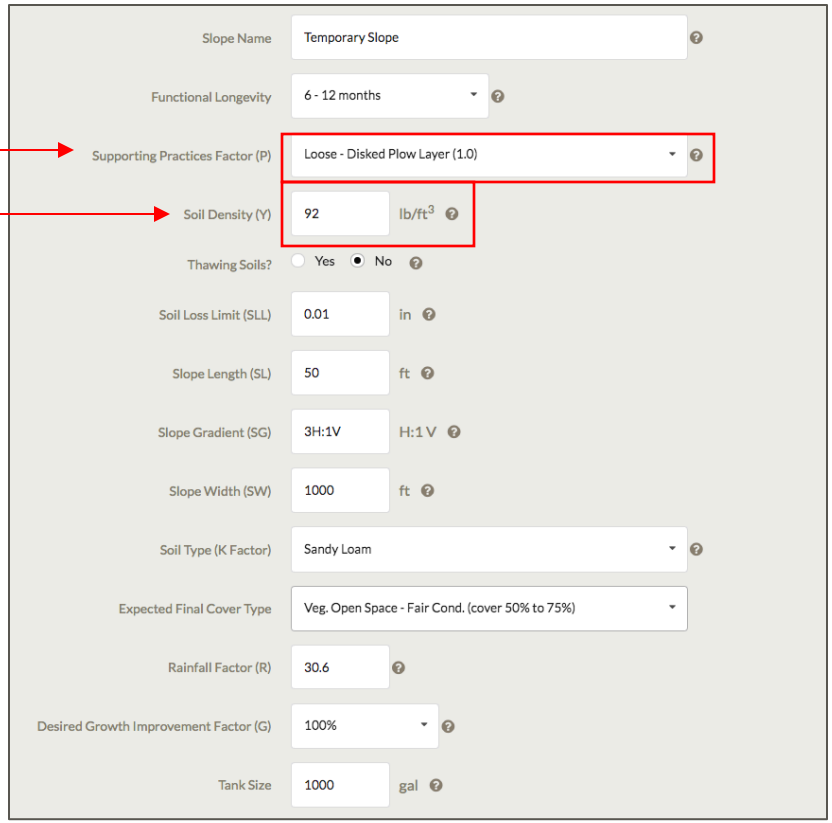
SLOPE INPUT

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/ft^3 is provided as an average value. Unless specific information is available, it is recommended to use the default value.



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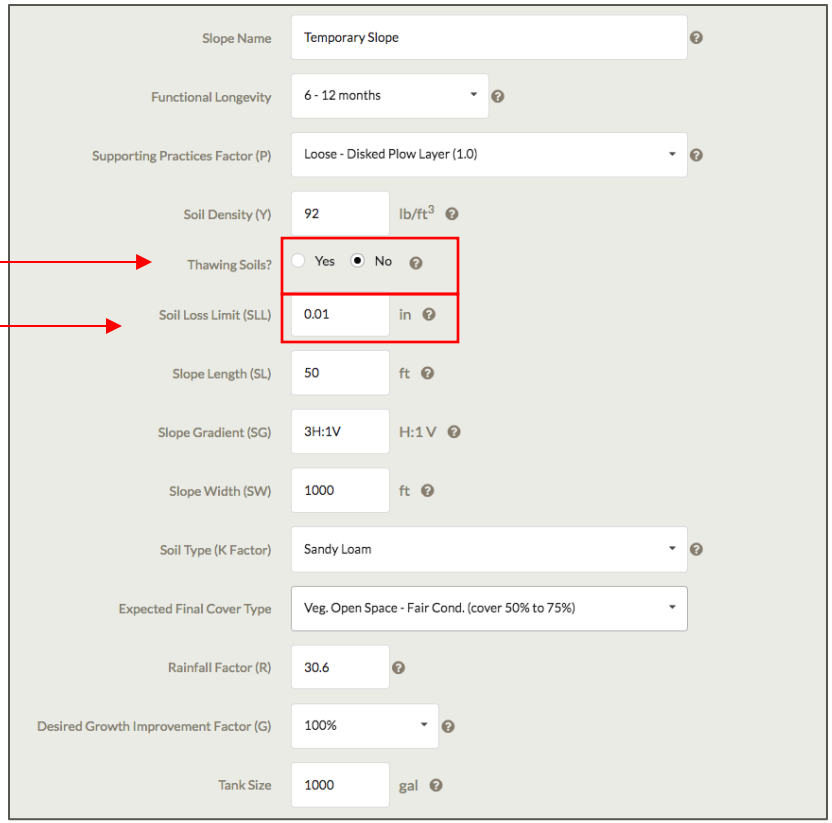
SLOPE INPUT

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.



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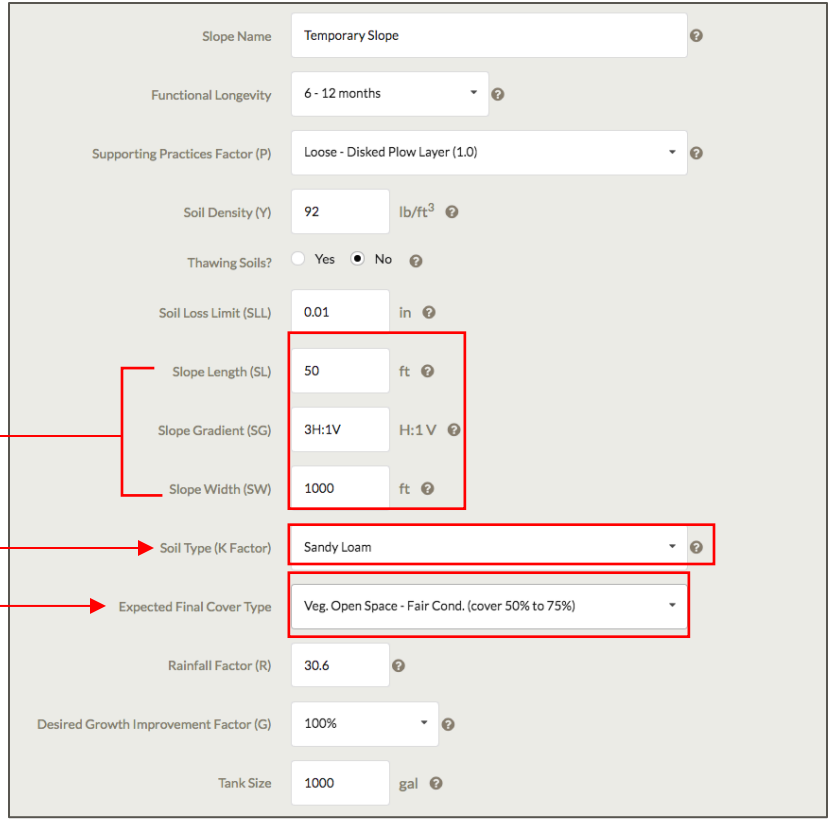
Input the slope length, gradient and width.

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



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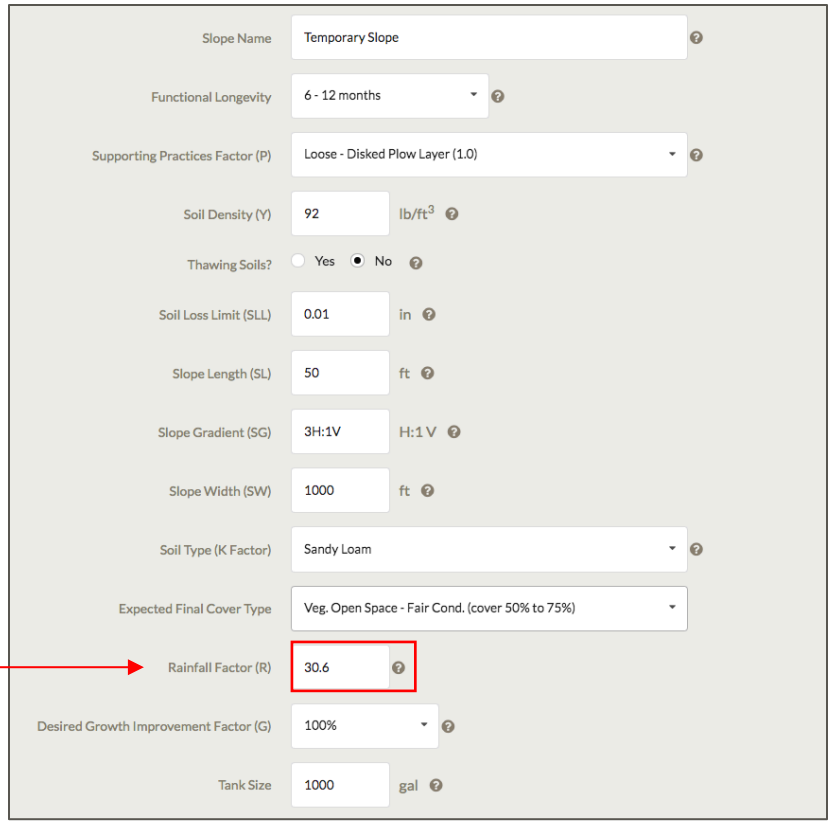
SLOPE INPUT

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.



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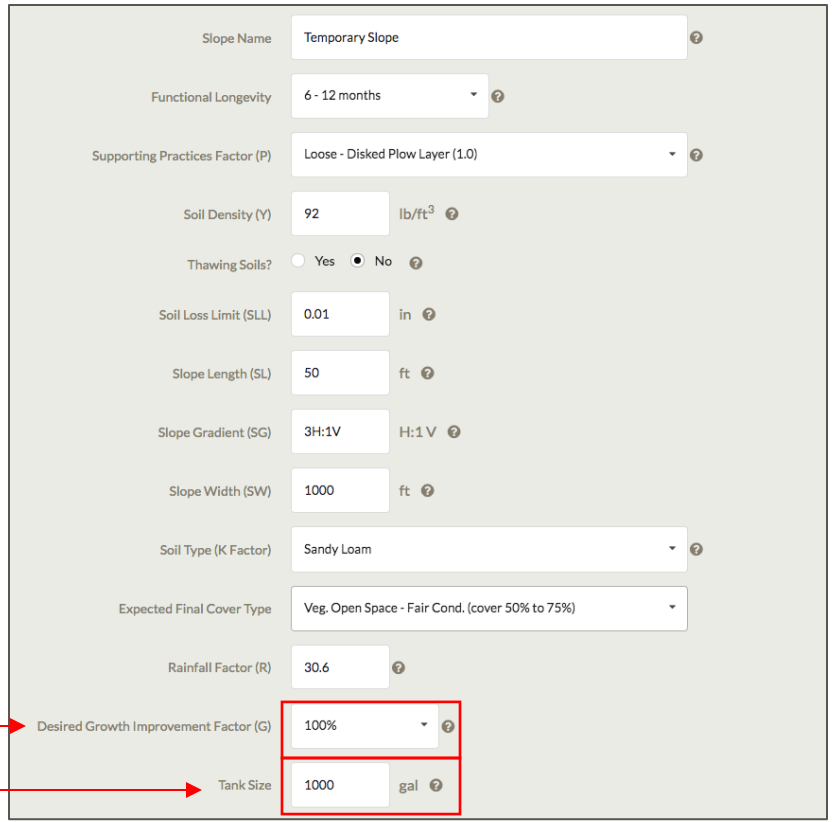
Choose a growth establishment factor that best suits the project timelines and vegetation establishment needs.

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



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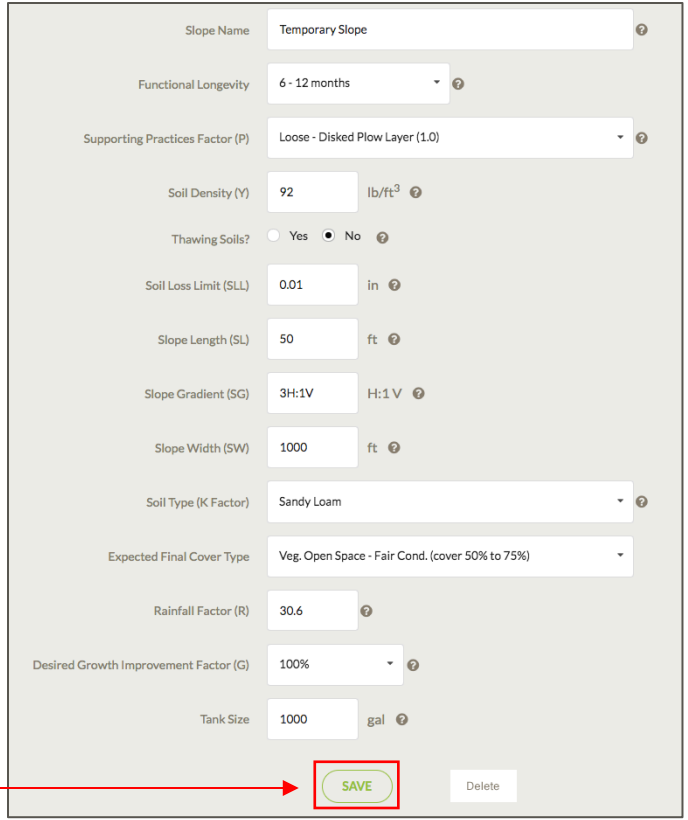
SLOPE INPUT

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.



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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

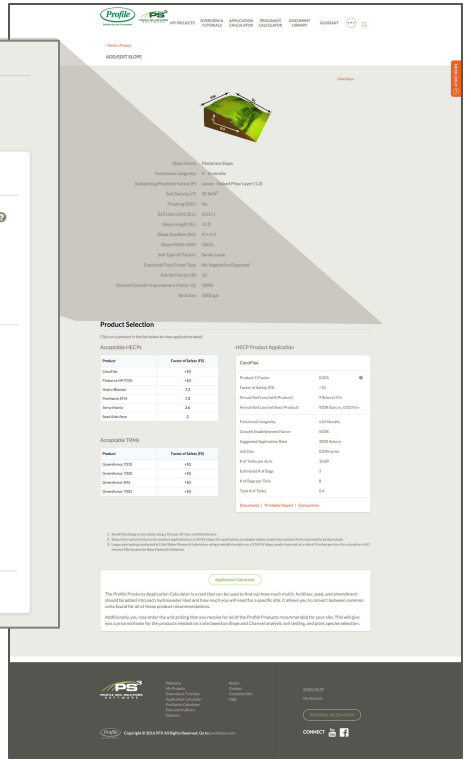
Product	Factor of Safety (FS)
GreenArmor 7010	>10
GreenArmor 7020	>10
GreenArmor R45	>10
GreenArmor 7003	>10

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



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FLEXTERRA DOCUMENTS

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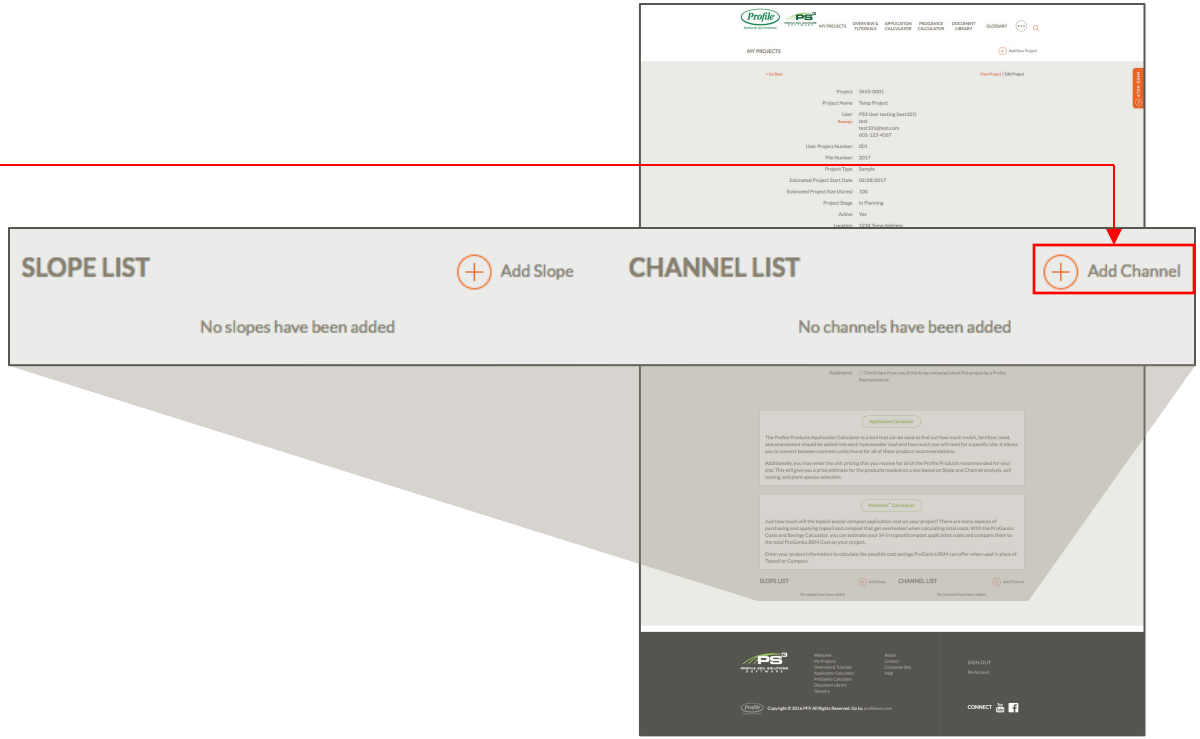
ADD A CHANNEL

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

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



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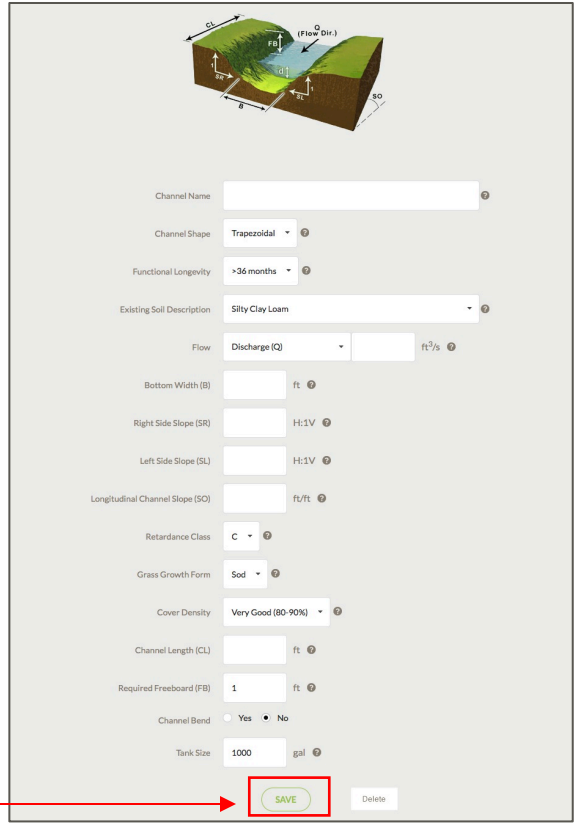
CHANNEL INPUT

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.



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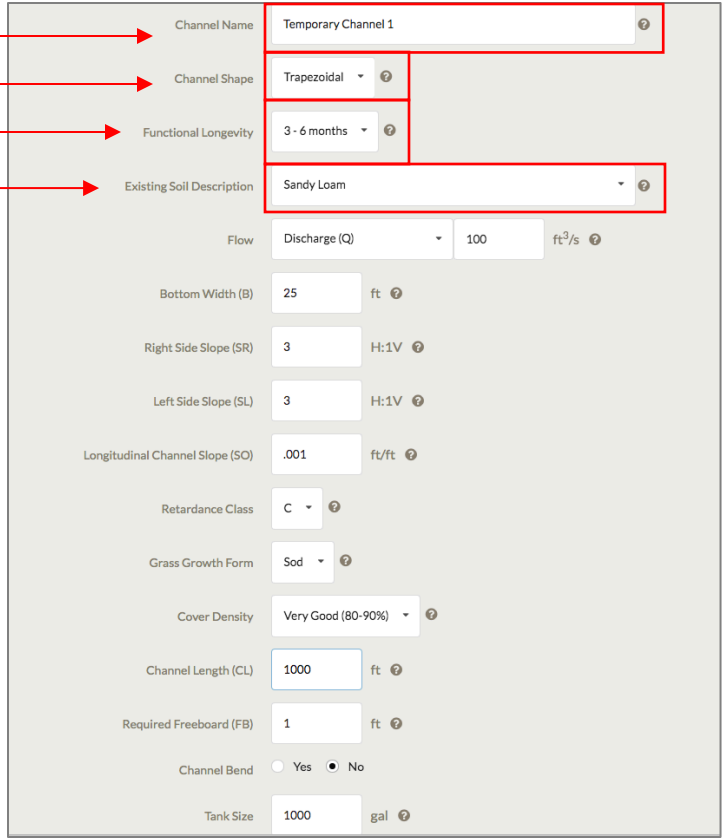
Type in the name of the channel.

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



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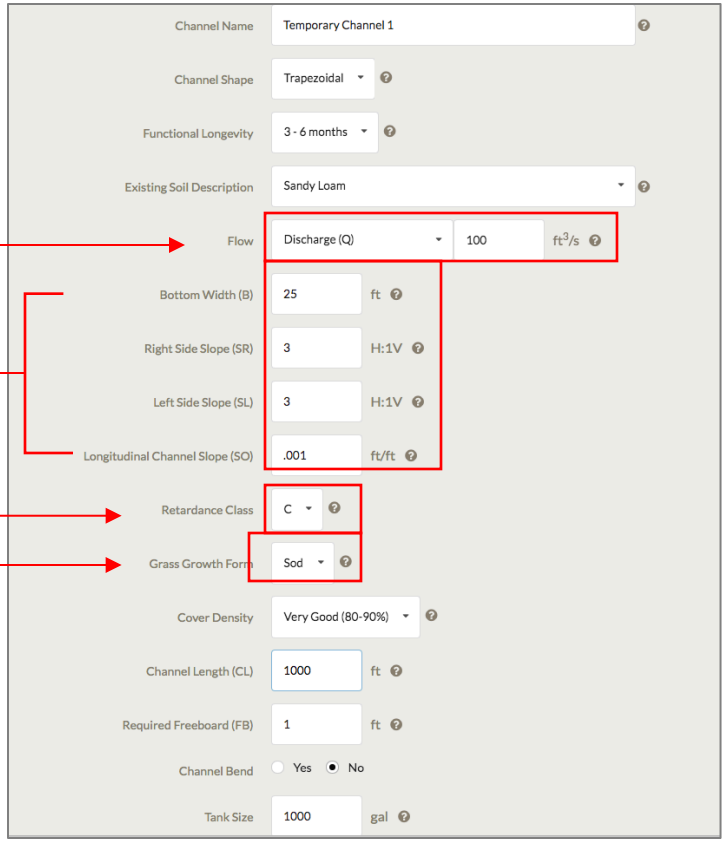
CHANNEL INPUT

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.



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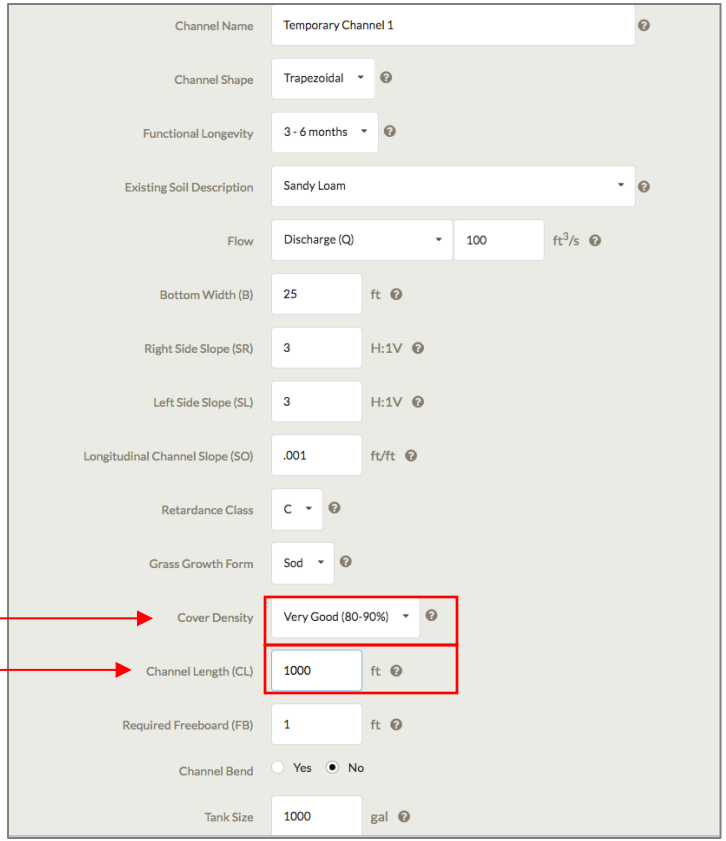
A qualifier of Excellent, Very Good, Good, Fair and Poor are used to distinguish various levels of quality. Stands of vegetation classified as excellent should demonstrate > 90% total coverage with virtually all the vegetation healthy and full height. Stands of vegetation classified as poor will appear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

Enter the channel length.

CHANNEL INPUT



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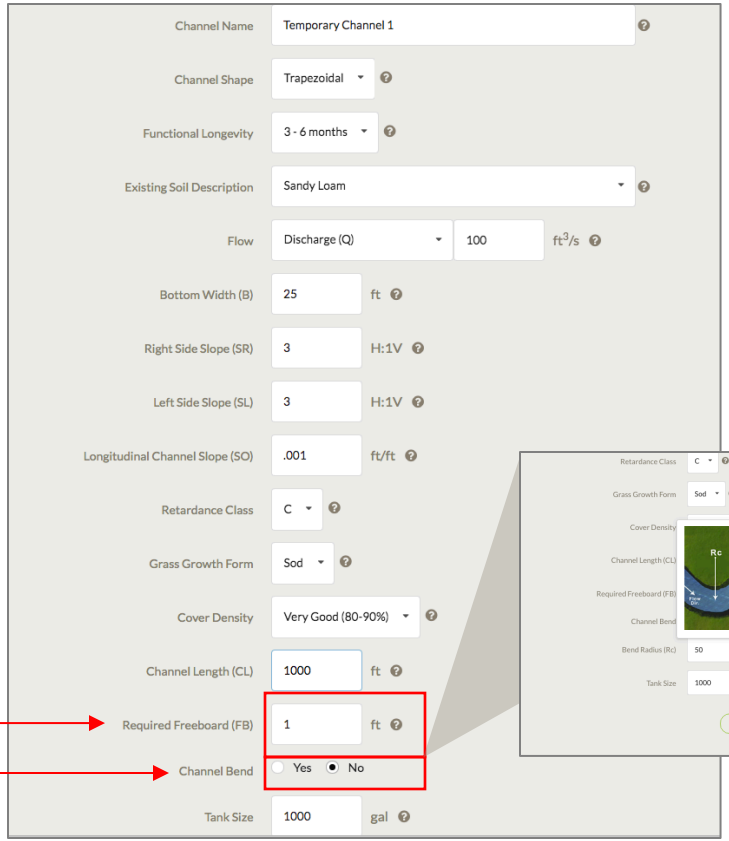
This is the amount of channel that would extend above the computed channel depth. It is used as a safety measure to ensure that the channel is not overtopped.

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 INPUT



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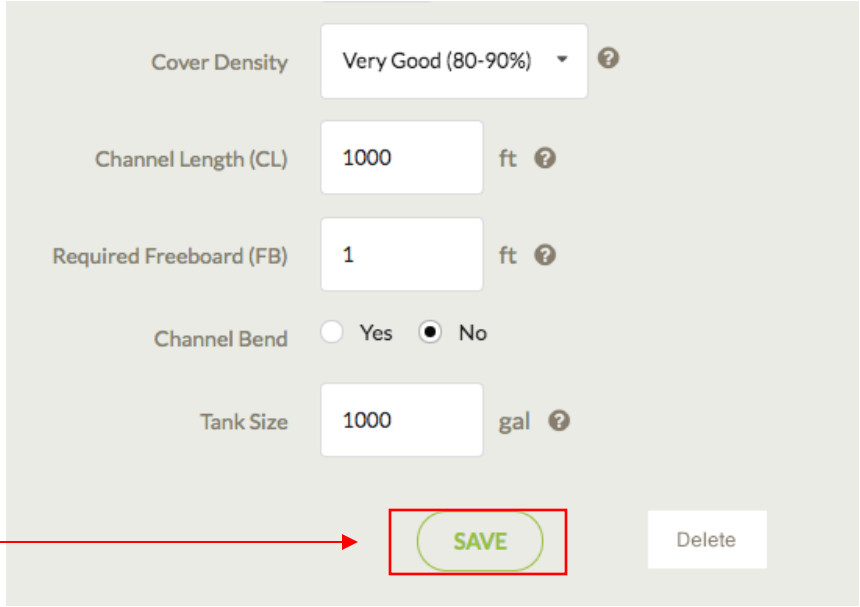
CHANNEL INPUT

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

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



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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.

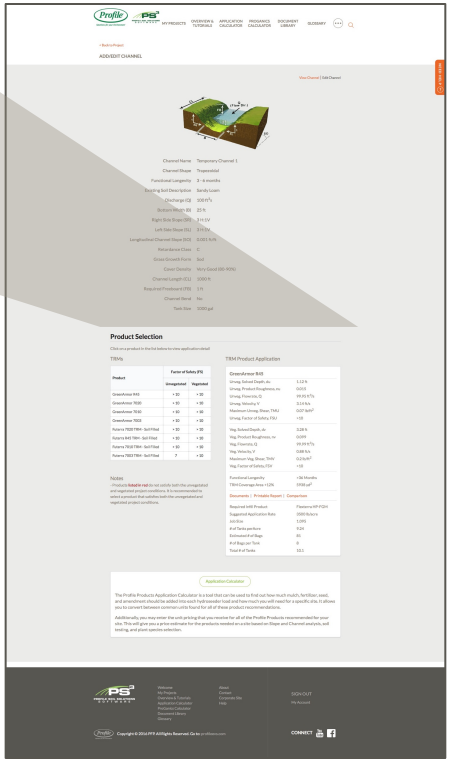
TRM Product Application

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

Documents | Printable Report | Comparison

Required Infill Product	Flexterra HP-FGM
Suggested Application Rate	3500 lb/acre
Job Size	1.095
# of Tanks perAcre	9.24
Estimated # of Bags	81
# of Bags per Tank	8
Total # of Tanks	10.1



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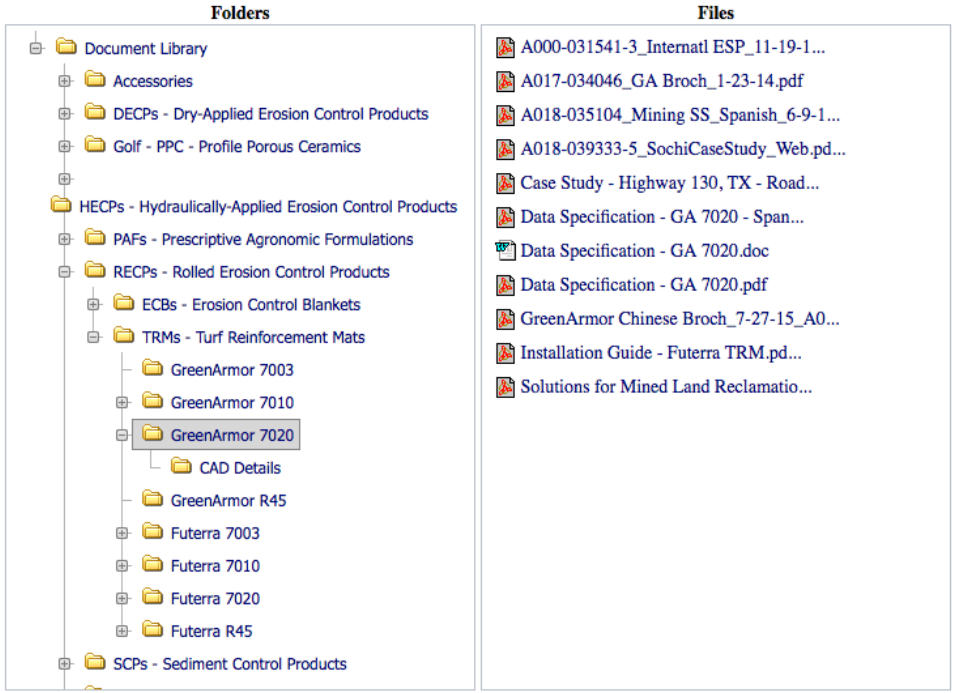
GREENARMOR 7020 DOCUMENTS



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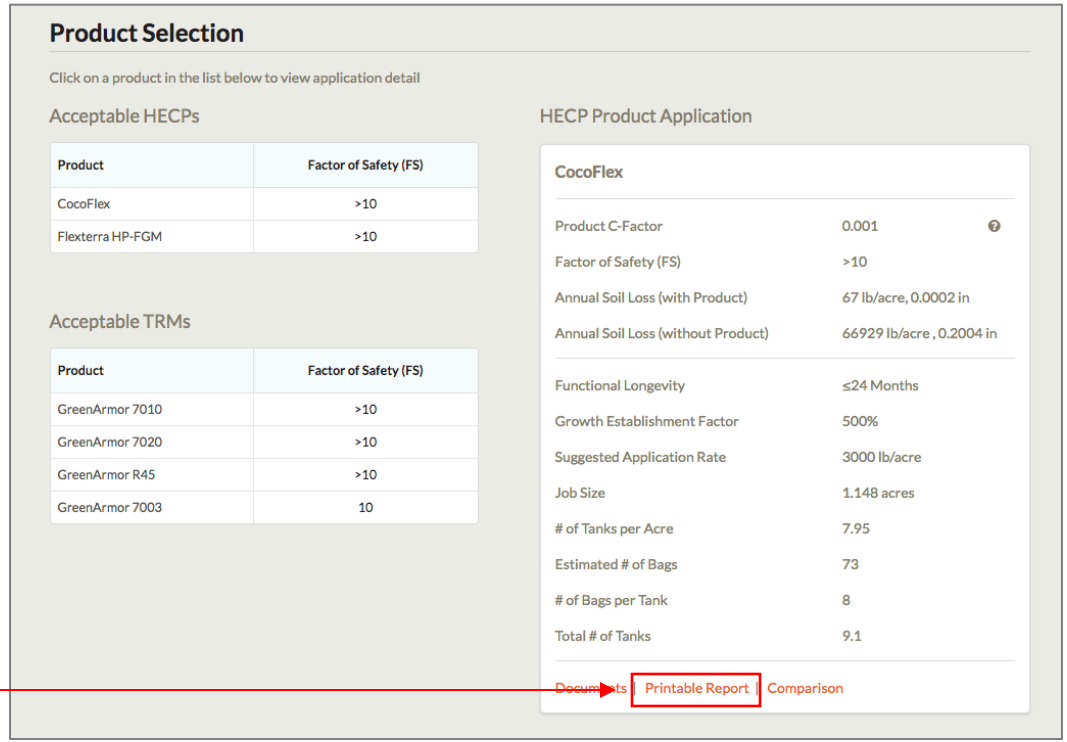
REPORTS

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.



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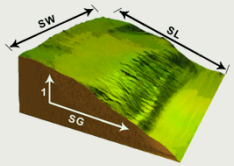
REPORTS - SLOPE

Click to Print



Project Information

Project	3455-0001
* Project Name	Temp Project
Location	1234 Temp Address Denver, Colorado United States
Contact	PS3 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

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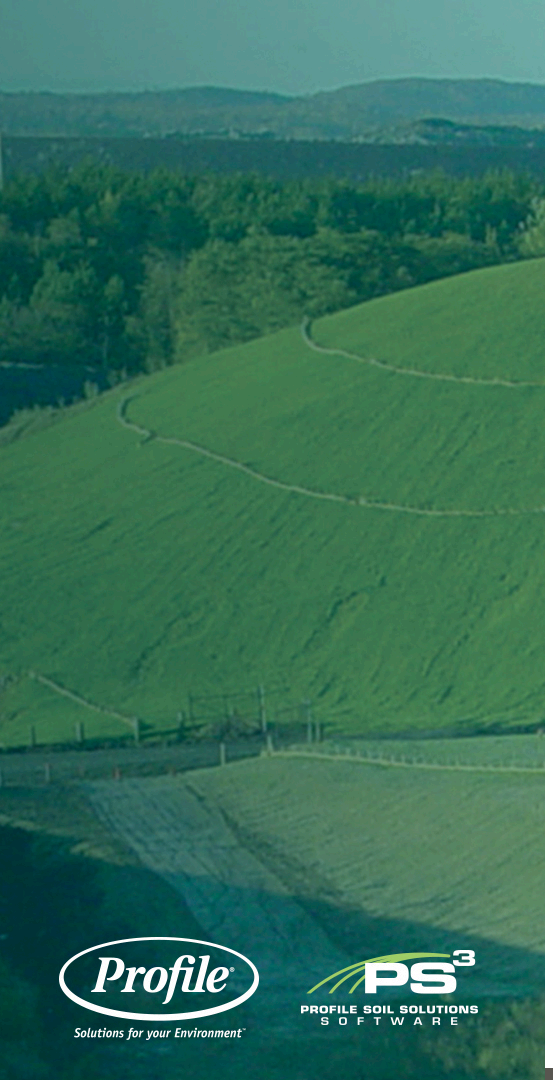
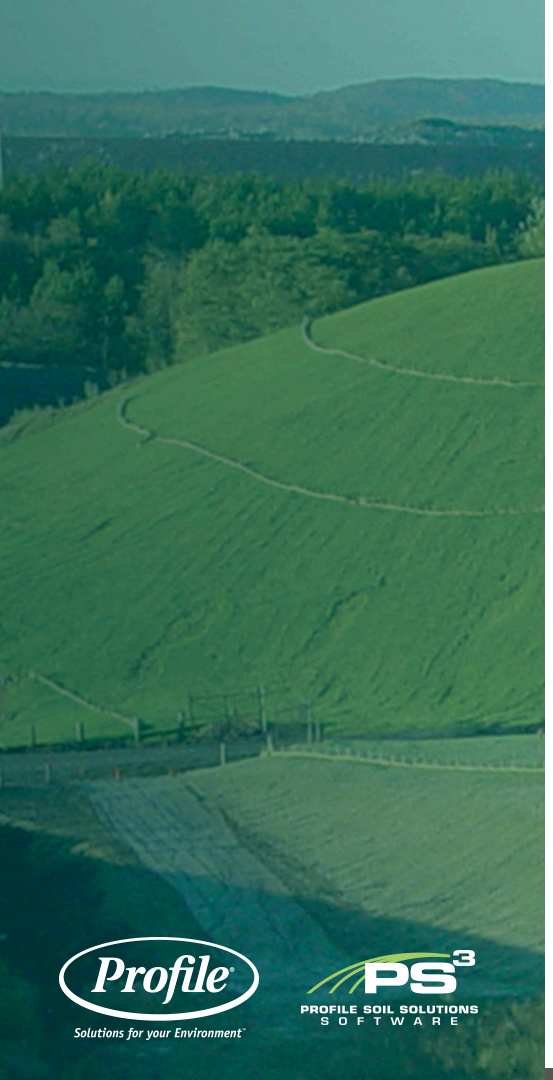


REPORTS - SLOPE

Slope Details

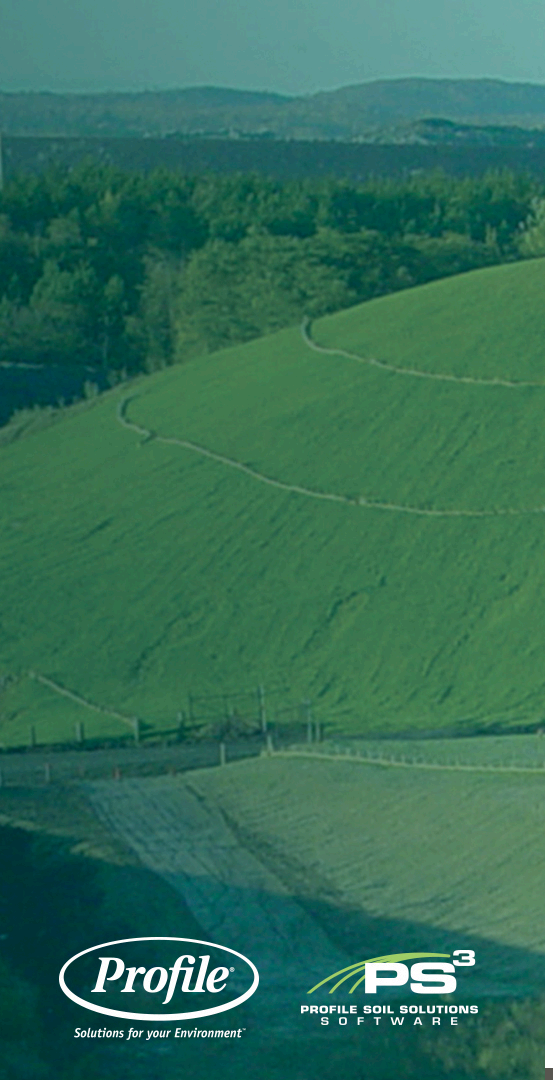
Slope Name	Temporary Slope
Functional Longevity	6 - 12 months
Supporting Practices Factor (P)	Loose - Disked Plow Layer (1.0)
Soil Density (Y)	92 lb/ft^3
Thawing Soils?	No
Soil Loss Limit (SLL)	0.01 in
Slope Length (SL)	50 ft
Slope Gradient (SG)	3 H:1 V
Slope Width (SW)	1000 ft
Soil Type (K Factor)	Sandy 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 ft^3/s_1



REPORTS - SLOPE

Product Selection

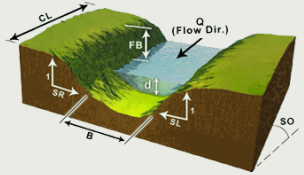
Click on a product in the list below to view application detail

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	PS3 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

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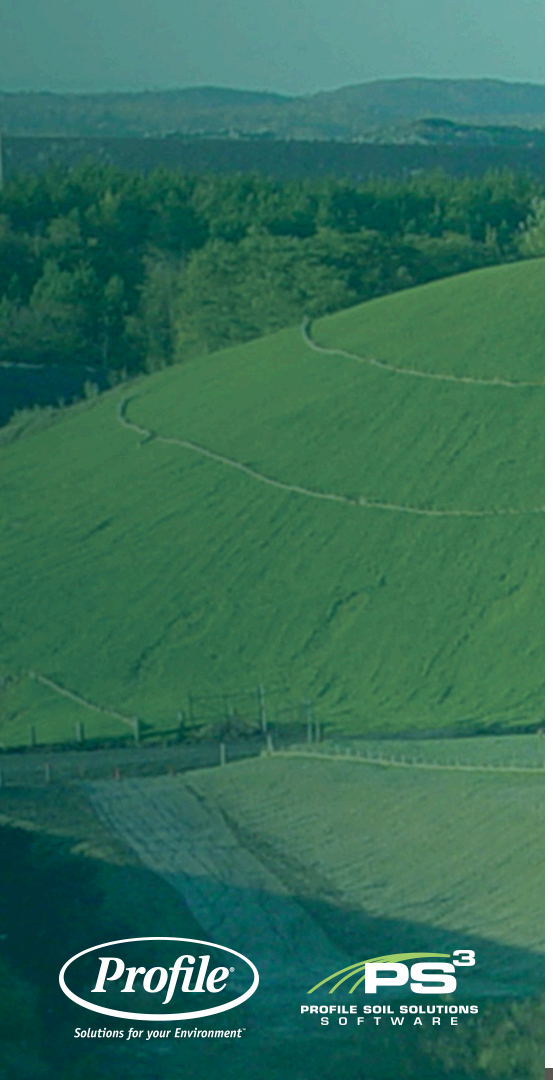
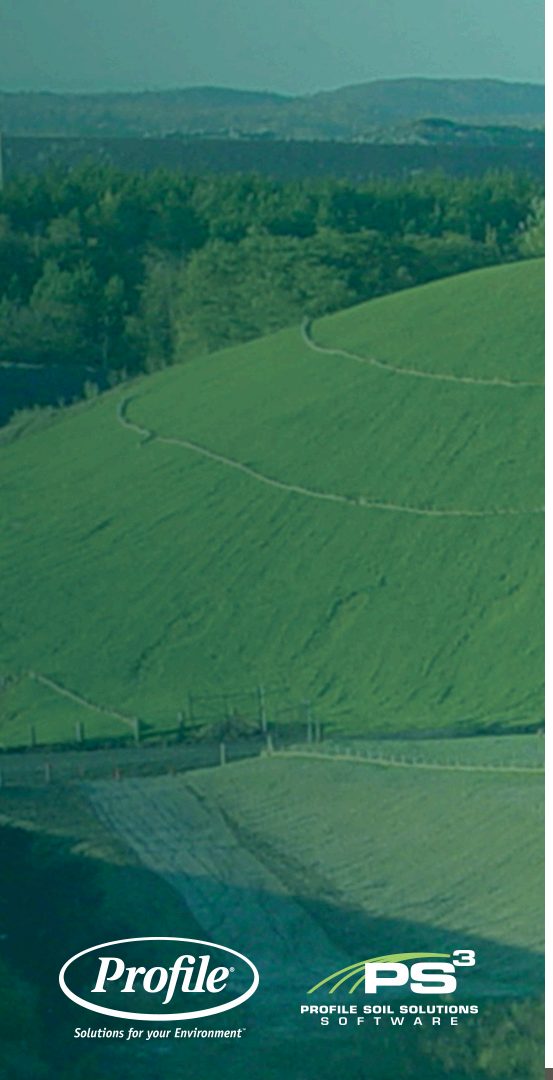


REPORTS - CHANNEL

Channel Details

Channel Name	Temporary Channel
Channel Shape	Trapezoidal
Functional Longevity	3 - 6 months
Existing Soil Description	Sandy Loam
Discharge (Q)	100 ft^3s
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 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 perAcre	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

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