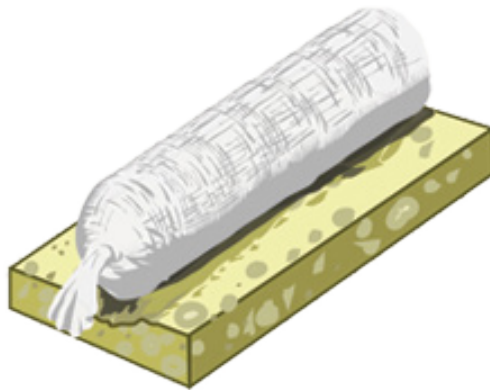




BioSocks Hawaii Inc



12" BioSock Pro

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BioSocks Hawaii Inc

12" BioSock Pro™

Description:

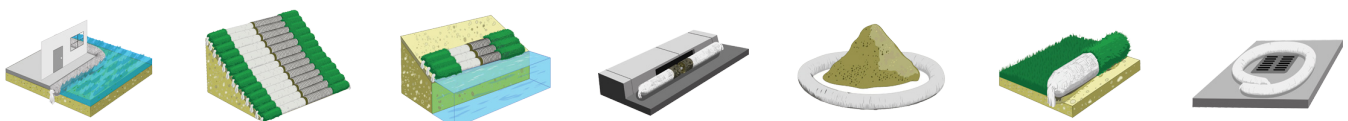
The 12" nominal diameter **BioSock Pro™** compost filter sock is a robust BMP device that is extremely capable in multiple application. The Patent Pending *SynergyNet™* construction enables customization of the sock to achieve specific levels of strength, containment, filtration, rigidity, and bio-degradation. The **BioSock Pro™** does not require trenching and can be installed on almost any terrain, including frozen ground and hard surfaces. The **BioSock Pro™** may be vegetated by incorporating seed into the compost prior to placement in the filter sock.

Applications:

- Perimeter Protection
- Area Drain Protection
- Curb Inlet Protection
- Stockpile Containment
- Slope Interruption Device
- Check Structure Device
- Outlet Pipe Scour Prevention
- BioSock EarthWall™
- Streambank Protection
- Shoreline Protection

Benefits:

BioSock Pro™ compost filter socks represent Best Available Technology (BAT) standards as set forth under the National Pollutant Discharge Elimination System (NPDES) guidelines. Compost filter socks are an effective replacement for BMPs such as slit fence as determined by United States Environmental Protection Agency (EPA) research which reflects; (1) their ability to provide three-dimensional filtration of stormwater runoff, (2) their ability to facilitate bio-remediation of stormwater which can effectively remove petroleum products, heavy metals, pesticides, herbicides, nutrients, bacteria, and other pollutants, and (3) their economically achievable installation costs (EPA research has demonstrated that compost filter sock installations typically cost less over the life of a construction project than traditional BMP installations).





BioSocks Hawaii Inc

Silt Fence Vs. BioSock™

for perimeter protection applications

INSTALLATION

Silt Fence	BioSock™
<ul style="list-style-type: none"> Requires disturbing the ground Requires trenching & backfilling Difficult to install properly Impossible near tree roots Can not be installed on frozen ground 	<ul style="list-style-type: none"> Low-Impact installation No trenching or backfilling required Easy and reliable installation Can be installed over tree roots Easily installed on frozen ground

EFFECTIVENESS

Slit Fence	BioSock™
<ul style="list-style-type: none"> Clogs prematurely and dams water causing flooding and BMP failure Doesn't filter fine sediment Does not stop petroleum, heavy metals, bacteria, and other pollutants from leaving the jobsite Can not be moved to allow for equipment access material deliveries, etc. 	<ul style="list-style-type: none"> Allows water to flow through and prevents premature BMP failure Effective at filtering fine sediment Protects the Environment, Bio-Remediates and removes petroleum, heavy metals, bacteria, and other pollutants Easily moved to allow for equipment access, material deliveries, etc.

MAINTENANCE

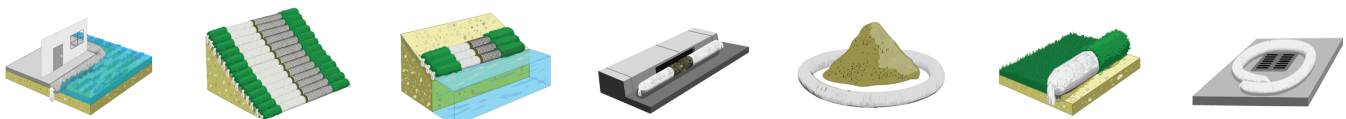
Slit Fence	BioSock™
<ul style="list-style-type: none"> Easily damaged by wind and UV Destroyed by trucks and construction equipment Repairs require trenching, staking, and distributing the earth Requires frequent replacement 	<ul style="list-style-type: none"> Withstands wind and UV Can handle encounter with trucks and heavy equipment Repairs can be done without trenching or disturbing the ground Typically lasts the life of the project

REMOVAL

Slit Fence	BioSock™
<ul style="list-style-type: none"> Requires disturbing the ground, opening Trenches, and backfilling trenches After Slit Fence is removed all disturbed ground requires immediate stabilization and re-vegetation 	<ul style="list-style-type: none"> Ground is not disturbed during the BioSock™ Netting/Mesh removal The compost infill previously contained within the BioSock™ is spread in-site and used as a soil amendment

COSTS

Slit Fence	BioSock™
<ul style="list-style-type: none"> Lower initial cost, but higher overall project cost 	<ul style="list-style-type: none"> Higher initial cost, but lower overall project cost





BioSocks Hawaii Inc

12" BioSock™

Description:

The 12" normal diameter **BioSock™** compost filter sock represents the latest in environmentally sustainable BMP technology and is capable in multiple applications. The **BioSock™** does not require trenching and can be installed on almost any terrain, including hard surfaces that have roots and rocks.

Applications:

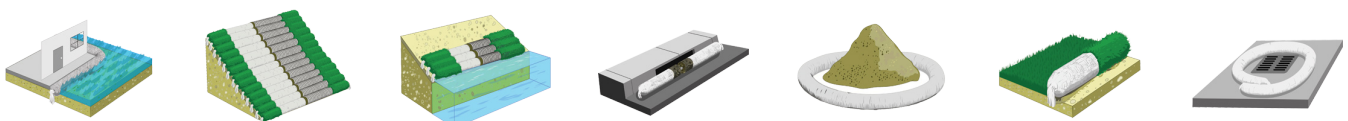
Perimeter Protection, Area Drain Protection, Curb Inlet Protection, Stockpile Containment, Slope Interruption, Device, Check Structure Device.

Technical Specifications:

Construction	Composite-Layered Tubular Knit	
Chemical Reaction	Inert to most soil chemicals including Alkaline, weak acids and salt	
Properties	Fiber Material	Polypropylene Multi-filament
	Filament Count	60-120
	Color	Black
	Melting Point	330°F
	UV Protection	Photodegradable/UV Stabilized
	UV Resistance ASTM D4355	150 Hours 100% 300 hours 96.5% 500 Hours 89.5%
	Approx. Life Expectancy*	18-24 Months
	Specific Gravity	.91 g
Strength Properties	Static Puncture ASTM D 6241	2400 N

Benefits:

BioSock™ compost filter socks represent Best Available Technology (BAT) standards as set forth under the National Pollutant Discharge Elimination System (NPDES) guidelines. Compost filter socks are even an effective replacement for BMPs such as slit fence as determined by United States Environmental Protection Agency (EPA) research which reflects; (1) their ability to provide three-dimensional filtration of stormwater runoff, (2) their ability to facilitate bio-remediation of stormwater which can effectively remove petroleum products, heavy metals, pesticides, herbicides, nutrients, bacteria, and other pollutants, and (3) their economically achievable installation costs (EPA research has demonstrated that compost filter sock installations typically cost less over the life of a construction project than traditional BPM installations).





BioSocks Hawaii Inc

LEED® Points & BioSock™

BioSock™ and LEED Certification Points:

The BioSock™ line of compost filter socks can help contribute towards a building's LEED certification in a number of different categories. The major categories of the USGBC rating system and potential points achievable with the BioSock™ system include the following:

Sustainable Sites:

Stormwater Design: Quality Control – SS Credit 6.1 – BioSock™ installations can prevent a post-development stormwater discharge peak rate associated with the building's footprint from exceeding that of pre-development and reduce stormwater discharge. The BioSock™ system is considered as stormwater treatment through its ability to remove suspended solids and other pollutants.

Potential Points: 1 to 2 points (depending on the overall percent of recycled project materials included in the project)

Materials and Resources:

Recycled Content – MR Credit 4.1 – The BioSock™ is made from 99% post-consumer recycled materials and can be applied towards the goal of 5% to 10% of the total value of project materials originating from recycled material.

Potential Points: 1 to 2 points (depending on the overall percent of recycled project materials included in the project)

Regional Materials – MR Credit 4.1 – The BioSock™ system is manufactured locally thus the system can contribute toward having 20% to 50% of a building's materials manufactured within a 500-mile radius. Since the BioSock™ is comprised of locally sourced post consumer recycled products, the BioSock™ can contribute to the 50% extracted regionally credit.

Potential Points: 1 to 2 points

Innovation and Design Process:

The BioSock™ is an **Erosion Control 2.0** technology that effectively replaces conventional technologies that are outdated and ineffective. The environmentally friendly BioSock™ system may qualify for innovation and design credits by its ability to harness the power of recycled greenwaste to achieve the following advantages over conventional erosion and sediment control technologies:

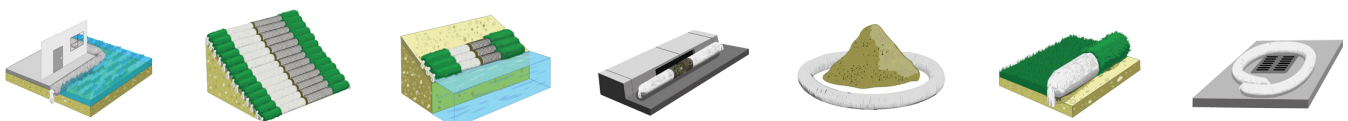
- Reduces runoff and non-point source pollution
- Conserves water
- Improves soil quality and retards erosion
- Improves groundwater recharge
- Conserves fossil fuels
- Reduces construction waste stream
- Conserves landfill space
- Reuses waste materials
- Supports wildlife habitat
- Supports local ecology

Potential Points: 1 to 2 points

In Summary:

The BioSock™ system can contribute up to 7 points towards LEED certification, almost 25% of the total need to Certify.

For more information on the BioSock™ system, visit www.biosockshawaii.com, send us an email at Melba@biosockshawaii.com or call us at **(808)259-9888**

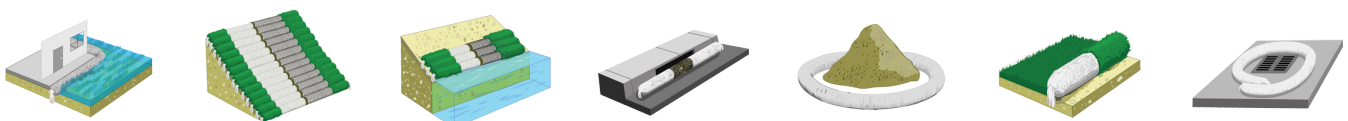


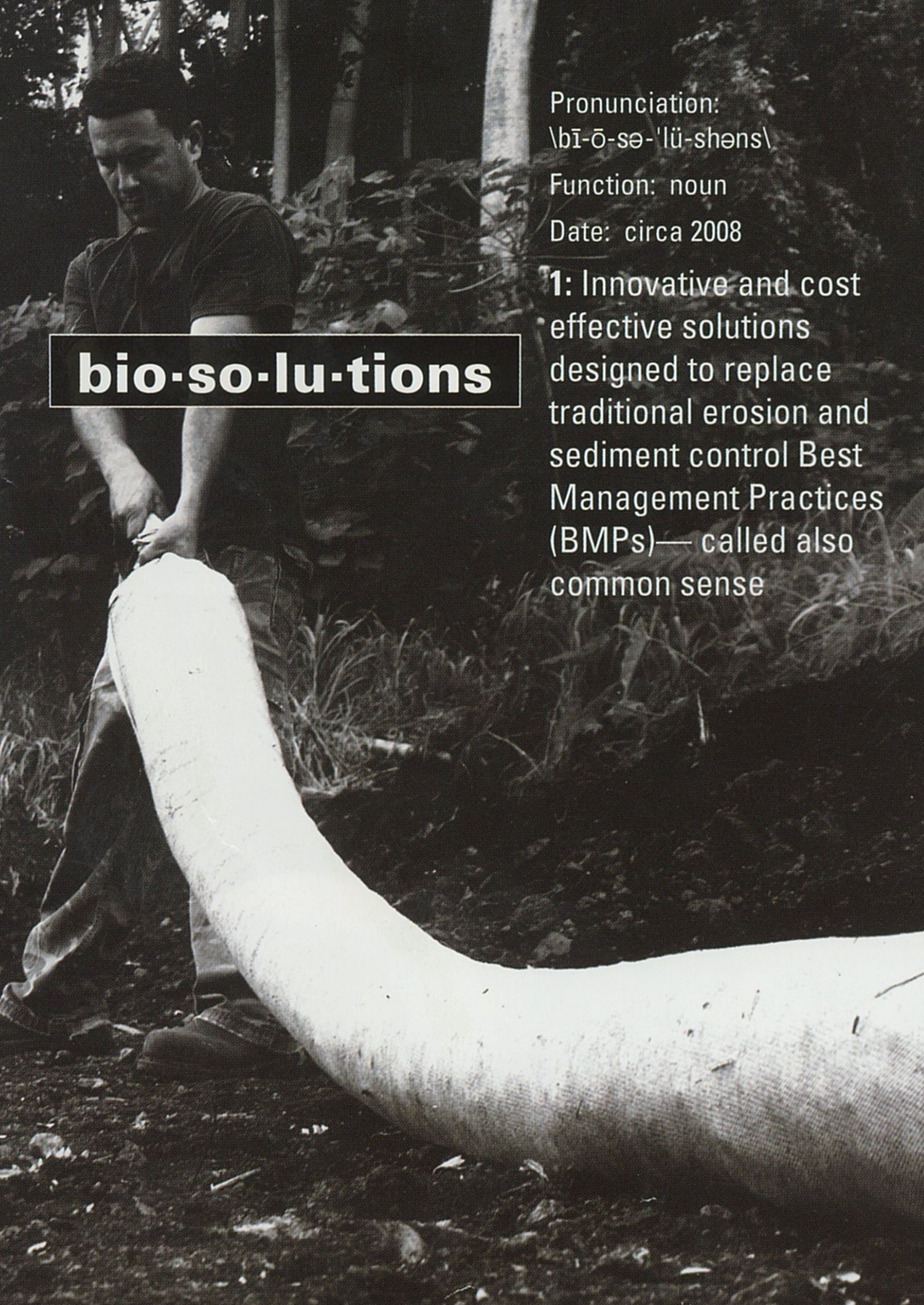


BioSocks Hawaii Inc

COMPARISON OF PERIMETER CONTROL BEST MANAGEMENT PRACTICES (BMPs)

	BioSock™	Silt Fence	Straw-Filled Wattle	Coir-Filled Log	Synthetic Fiber Log	Rubber- Filled Wattle
EPA Approved BMP for NPDES Phase II	YES	YES	YES	YES	NO	NO
CFM per .25 Acre / 100' Device Length	.5	.25	.25	.25	NO DATA	NO DATA
LEED Point Eligible	YES	NO	SOMETIMES	NO	YES	YES
Trenching Required	NO	YES	YES	YES	YES	NO
Complexity of Installation	LOW	HIGH	MEDIUM	MEDIUM	MEDIUM	MEDIUM
Labor Required to Install	LOW	HIGH	MEDIUM	MEDIUM	MEDIUM	HIGH
Bio-Remediates Oil	YES	NO	NO	NO	NO	NO
Bio-Remediates Hydrocarbons	YES	NO	NO	NO	NO	NO
Bio-Remediates Pesticides	YES	NO	NO	NO	NO	NO
Bio-Remediates Bacteria	YES	NO	NO	NO	NO	NO
Bio-Remediates Heavy Metal	YES	NO	NO	NO	NO	NO
Overall effectiveness	HIGH	LOW	MEDIUM	MEDIUM	HIGH	HIGH
Maintenance Requirements	LOW	HIGH	MEDIUM	MEDIUM	HIGH	HIGH
Functional Longevity	18-24 MOS.	4-6 MOS.	8-12 MOS.	18-24 MOS.	24 MOS.	36 MOS.
Complexity of Removal	LOW	HIGH	MEDIUM	MEDIUM	MEDIUM	MEDIUM
Removal Waste Stream	LOW	HIGH	HIGH	HIGH	HIGH	HIGH
Soil Stabilization Required after Removal	NO	YES	NO	NO	YES	YES
Potential for BMP Failure during Project	LOQ	HIGH	HIGH	MEDIUM	LOW	LOW
Re-Locatable & Movable	YES	NO	NO	YES	YES	YES
Overall Effectiveness	HIGH	LOW	MEDIUM	MEDIUM	HIGH	HIGH
Overall Price Installation	LOW	HIGH	MEDIUM	HIGH	HIGH	HIGH





Pronunciation:
\bī-ō-sē-'lü-shəns\

Function: noun

Date: circa 2008

1: Innovative and cost effective solutions designed to replace traditional erosion and sediment control Best Management Practices (BMPs)— called also common sense

bio-so-lu-tions