

# BIOSWALES



Bioswales are a form of bioretention designed to slow surface water runoff and help in the removal of stormwater pollutants.



## Stormwater Runoff Management



**Improved  
Aesthetics**



**Drainage  
Retrofitting**



**Runoff  
Management**

### PROTECT WITH CONFIDENCE.

Layfield Environmental Containment is a vertically integrated company involved in the manufacturing, fabrication, installation, and maintenance of high performance geomembranes, floating covers, and specialty geosynthetics.



With Bioswales we recommend using EnviroLiner® 1000 (EL1000). This is a specialized polyethylene flexible membrane liner material that has been developed for medium term performance applications. EL 1000 is placed to prevent premature infiltration into the ground.

### EnviroLiner 1000

- Light colored top surface helps identify installation damage
- Specialized Polyethylene Flexible Membrane Liner
- Resistant to liquids used in hydraulic fracturing
- Resistant to flow back and produced water
- Perfect for use in Bioswales
- Reduces wrinkles caused by thermal expansion & contraction
- Can be factory fabricated & delivered in large panels

Also known as infiltration swales, Bioswales are a form of bioretention designed to slow surface water runoff and help in the removal of stormwater pollutants. Unlike ditches, they slow down the movement of runoff allowing the water to be cleaned and filtered along the way. Bioswales can be used in many applications including pollutant removal, drainage retrofitting, and runoff management.

## FEATURES AND BENEFITS

Bioswales have many features that improve runoff management

### • Improved Aesthetics

You can liven up the landscaping of your facility while still addressing stormwater management with bioswales. By doubling as a landscaping feature, bioswales allow for personalization with vegetation choice

### • Drainage Retrofitting

It is possible to retrofit an existing drainage ditch into a Bioswale. This upgrade improves the ditch aesthetics and increases the amount of intercepted rainfall.

### • Runoff Management

A 13 foot Bioswale /trench can reduce the volume of runoff from a typical local road to about 25% of total rainfall. This prevents polluted stormwater runoff from absorbing into the environment.



**EnviroLiner1030** - Sharp Hospital, San Diego