

Stormwater Bioswales

Town of Hillsborough Fact Sheet

What are bioswales?

Bioswales are gently sloping, vegetated ditches that allow for the collection, conveyance and filtration of stormwater. Bioswales help because the plants and special soil layers in the ditch slow stormwater infiltration and filter out pollutants before the water reaches nearby streams or rivers.







Where are bioswales used?

Bioswales can be located alongside roadways or in low-lying areas where stormwater tends to gather. The town has installed bioswales on Odie Street in Hillsborough (pictured above), in partnership with others. Grass grows in some bioswales, while native plants grow in others, depending on the homeowner's preference.

How are bioswales made?

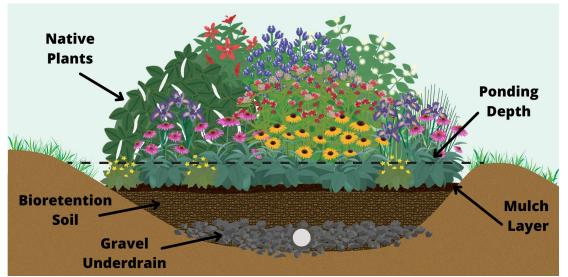


Illustration courtesy of City of Durham

Bioswales are typically constructed by digging a deep trench and adding layers of gravel and a bioretention soil mixture. This special mixture allows water to flow gradually through the bioswale. A gravel underdrain at the bottom of the trench helps control overflow during heavy rainfall.

What benefits do bioswales provide?

Once stormwater infiltrates the soil, it eventually joins the groundwater in the earth. Bioswales are constructed with a special soil mixture to allow stormwater to slowly infiltrate the layers, leaving pollutants behind. Plants and microorganisms in the garden also help remove pollutants. By keeping pollutants out of stormwater, we are improving the water quality of our streams and rivers.

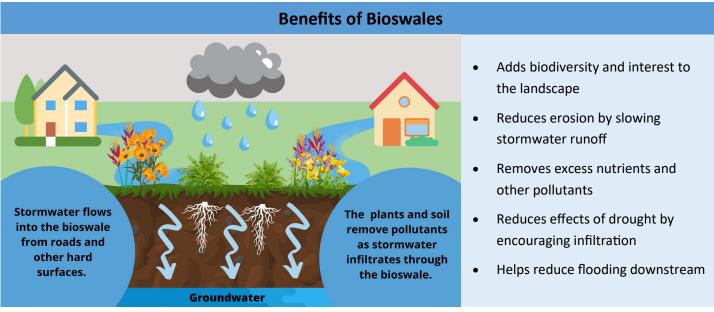


Illustration courtesy of Brenda Palacios Rodriguez

Where does our stormwater go?

In Hillsborough, stormwater flows through our storm drains and ditches into our streams and creeks and eventually into the Eno River. From the Eno River, our stormwater flows into Falls Lake and the Neuse River, eventually reaching the Pamlico Sound and the Atlantic Ocean.



Eno River



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