

Conventional And Non-Conventional Elements For Urban Drainage Catchment Stormwater

Hector Alfonso Rodriguez Diaz (1) and Leidy Johanna Franco Calderon (2)

(1) Escuela Colombiana de Ingenieria Julio Garavito, Bogotá, Colombia (hector.rodriguez@escuelaing.edu.co), (2) Escuela Colombiana de Ingenieria Julio Garavito, Bogotá, Colombia (leidy.franco-c@mail.escuelaing.edu.co)

The main objective of urban drainage system is to allow the safe passage of pedestrians and vehicles quickly evacuating the runoff to prevent flooding. However, development of cities has altered the natural water cycle and providing wide range of contaminants to surface water streams receiving rain from the urban system. For these reasons we have developed unconventional-urban al rainwater systems unconventional rainwater, in accordance with sustainable development, called Sustainable Urban Drainage Systems (SUDS).

Considering that the urban drainage system begins with the collection on the site of origin of runoff, in this article the study of conventional and unconventional elements for capturing rainwater arises, establishing the general criteria for selection and design and the classification of SUDS.