

BMP Project Fact Sheet

Filterra Stormwater Planter

As part of a NEIWPCC grant, Princeton Hydro was contracted to design and implement a project at the Parsippany-Troy Hills police department and court offices. Princeton Hydro worked with the Whippany River Watershed Action Committee (WRWAC) to implement projects within the watershed plan to meet the TMDL requirements for the Whippany River.

Princeton Hydro prepared the design plans for three Filterra® structures to be installed within the site's parking lot. The Filterra® device is a bioretention system within a pre-cast concrete box which is underdrained and connected to the existing storm sewer network. The system includes a mulch layer, engineered bioretention media, and a stone layer with perforated underdrain. The device is planted with a native tree or shrub to provide aesthetic value as well as additional nutrient removal and filtration. The three Filterra® devices collect runoff from over 8,800 square feet of parking lot.

These three Filterra® devices were the first ever to be installed in the State of New Jersey. Since then, Princeton Hydro has designed and implemented eight additional Filterra® units within the State. Bioretention devices have been shown to be highly effective in the removal of nitrogen and phosphorus bound to sediment.



Did you know...

With its small footprint, Filterra is well suited for urban environments with existing infrastructure.

Contact Information

Princeton Hydro, LLC
Mary L. Paist Goldman, PE
(908) 237-5660

