



① Residential street near wetland often floods during storms

② Rainfall is simulated to strategize the most efficient solution.

⑤ Allow landscaped areas to fill with diverse vegetation, creating a beautiful landscape that also helps remove pollution

③ Install drainage system, like a supportive stone wall and pipe, that connects the street to the naturally occurring waterway, and grade the land from the road down to the waterway to guide the water towards the pond.

④ Water is then contained in a detention pond, where its speed is reduced. From here, it passes through a series of ponds that withhold runoff, such as sediment, from the roadways, only allowing clean water to pass through

⑥ From the ponds, clean water passes through existing streams and corridors, and eventually into the Atlantic Ocean

Step-by-Step Installing a BMP

Best management practices (BMPs) are a method of reducing water pollution. We use them in areas where flooding and erosion are most likely to happen. We build BMPs most often in the borough of Staten Island. The Staten Island Bluebelt has the last major body of freshwater wetlands in NYC and the last sewage infrastructure of the 5 boroughs. BMPs enhance existing wetlands, which would be destroyed with the installation of storm sewers, so they can improve water quality and distribution while creating a thriving habitat for wildlife.



**Department of
Design and
Construction**