

# Xeripave® Super Pervious (SP) Pavers

## Case Studies: Washoe County Stormwater Infrastructure Filtration Trays

Washoe County, NV, like many municipalities, was fighting a continuous battle against the mosquitoes. The county decided to take action to reduce the mosquito population and vector diseases, such as the West Nile Virus. The Vector-Borne Diseases Environmental Health Division decided they were in need of a solution that would not require the use of pesticides in the county's stormwater drainage systems, which are a mosquito breeding ground. Xeripave, LLC worked closely with the county to develop a two-year pilot study program for a stormwater drainage filtration tray system.

The goal was to provide a filtration system that would improve the outflow water quality by capturing sediment, debris and urban clutter, while aiding with vector control. Using the Xeripave® Filtration Tray System, Washoe County concluded that the trays placed in catch basins significantly reduced the overall population of mosquitoes by eliminating access to standing, stagnant water in the stormwater basin. Jim Shaffer,



Planner with the Vector-Borne Diseases Environmental Health Division in Washoe County, commented, "By putting the Xeripave® Tray System in catch basins prevents adult mosquitoes from colonizing. Catch basins are like incubators in the streets producing mosquitoes every seven days during the summer months. Using these tray systems prevents mosquitoes from laying eggs, and reduces the amount of pesticides that would otherwise be needed. It is becoming the hydrology standard in the county."

The design consisted of placing a Xeripave® Filtration Tray System in catch basins to allow water to flow through the pavers, while simultaneously removing 100 percent of gross pollutants and inhibiting pest access. The simple filtration design was not only cost effective, but easy to maintain.

The Vector-Borne Diseases Prevention Program in Washoe County has required the Xeripave® Filtration Tray System to be used in all new private infrastructure projects. The county has also approved a new pilot program in Sparks, NV. Since the Xeripave® installations in Sparks and Reno, the benefits have been notable. Not only has this urban green technology improved the county's stormwater quality, it has decreased the amount of mosquitoes and vector issues throughout the region.

**Client:** Washoe County, NV

**Installation Date:**

**Contractor:** Daystar Distribution

**Product:** Xeripave Filtration Trays

