



Kentucky Horse Park Stormwater BMPs
Kentucky Horse Park Foundation
Lexington, KY
Project Date: August - November, 2013

The purpose of this project was to implement a variety of stormwater Best Management Practices (BMPs) to improve water quality in Cane Run at the Kentucky Horse Park. The park was selected as a key location to implement and demonstrate practical ways to reduce pollution in Cane Run. The quality of water in Cane Run is listed by the Kentucky Division of Water as impaired due to pollutants such as sediment, excessive nutrients, manure and urban runoff. Stormwater quality improvements in this area will benefit Cane Run and the Royal Springs Aquifer (which serves as the drinking supply water for the City of Georgetown). EcoGro was hired to assist with BMP selection, design and construction. The BMPs developed were:

- Construction of a 150,000 gallon bioretention basin.
- 1,000 linear feet of stream enhancement, bank grading and riparian buffer planting.
- Dredged 5,000 cubic yards of sediment from the main entrance pond.
- Amended soil and repaired drainage system along 75 linear feet of bioswale and rain garden.
- Stabilized a channel headcut with rock and created 1,200 square feet of amended bioswale.

Project Partners: Kentucky Horse Park Foundation, Ridgewater, Stantec Engineering, Lexington-Fayette Urban County Government, University of Kentucky, Kentucky Division of Water, US Army Corps of Engineers and US EPA.

Funding Source: EPA 319 grant for implementation of the Cane Run Watershed Plan.

Photos (clockwise): Construction of new bioretention basin, unstable stream bank (before), graded stream bank (after), bioswale repair, pond before dredging, pond after dredging.



Key Features:

- Design/Build
- Pond dredging
- Stream bank grading
- Bioretention basins

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