



Green Acres Stream Buffer Plan, Enhancements and Stewardship Lexington, KY Dec. 2014 - Dec. 2020

For many years, residents in the Green Acres and Hollow Creek neighborhoods had experienced a variety of flooding, sanitary sewer and storm water issues. In 2006, Representative Jesse Crenshaw made funding available from the Kentucky Legislature to resolve known flooding and trash problems. The Green Acres project was begun in 2007 with a study of the entire Green Acres watershed, followed by the purchase and demolition of flood plain homes and then storm and sanitary sewer line repairs in 2014. The process of ecological restoration is the final measures to address flooding and



water quality in the Green Acres and Hollow Creek neighborhoods. EcoGro was hired by the Lexington-Fayette Urban County Government (LFUCG) to address vegetative sustainability of the stream corridor for the intended purpose of improved water quality with minimal future maintenance. Additional goals were to reduce mowing and overall maintenance as well as provide public education and participation of stream buffer improvements.

EcoGro was able to provide LFUCG staff with a comprehensive planting and management plan for the Green Acres Stream Corridor Vegetative Buffer. This report describes the role of urban riparian buffers as a stormwater Best Management Practice (BMP), the ecological types and functions of riparian buffer zones, the process of establishing native plant communities, and techniques for long-term stewardship of different

buffer types. This report can be applicable to other LFUCG owned and operated properties.

Project Partners: Lexington-Fayette Urban County Government

GREEN ACRES PARK STREAM BUFFER

A stream buffer improves water quality by filtering pollutants from surface runoff before the water reaches the stream. Kentucky native trees, shrubs and wildflowers were planted to create a more natural landscape along this tributary to Cane Run. The dense root systems in a stream buffer help hold soil in place and reduce erosion of the banks. This natural area will also provide habitat for wildlife such as birds, frogs, and butterflies as well as shade for aquatic life.



Before: January, 2015

Key Features:

- Design/build
- Riparian Buffer
- Educational Programs
- On-going Stewardship

www.EcoGro.net
(859) 231-0500

P.O. Box 22273, Lexington, KY 40522