

City of Foley, Alabama

EPA Grant - EPA-CEP-01

Stormwater Facilities Assessment, Documentation and Inspection within the City of Foley

Project Narrative

The City of Foley is a municipality with an estimated population of 17,000 based on the 2010 census and recent annexations. Within the City limits comprise the headwaters to Magnolia River, an outstanding Alabama Water, Bon Secour River and Wolf Creek, an outstanding Alabama Water. As a forward thinking city, Foley has approached the management of stormwater issues prior to any regulative requirements. Implementing a stormwater program beginning in 2008, Foley modeled an environmental division based off the requirements of a Phase II MS4 program. This division started with the creation of a construction program managing stormwater runoff through the implementation of effective, adequate best management practices. This was followed in 2009 with an illicit discharge program, including an outfall inventory of all stormwater outfalls within the City limits.

The outfall inventory was conducted by City staff and included over 500 identified private and public outfalls entering the stormwater facilities and streams in the City. This assessment was completed in 2009. Since 2009, we have not been able to update all additional annexations and newly constructed stormwater facilities. Also we have not re-inspected any of the facilities since the initial inspection. All original information has been catalogued and placed within a GIS layer for use.

In April 2014, the City of Foley received over 25 inches of rainfall within 24 hours equating to over a 500 year flood event from stormwater. Much of the City infrastructure was overwhelmed by stormwater and experienced erosion and maintenance issues. With the increased growth in the city, stormwater and water quality are a key component.

Foley would like to propose a project to assess and document the additional stormwater outfall infrastructure added to the city since 2009. Also as part of this project, we propose to inspect all 515 previously documented stormwater outfall infrastructures to assess any maintenance needs or illicit discharges. In order to accomplish this proposal, the City would temporarily hire, following the minimum federal procurement regulations, one staff member to work with the Environmental Division. An iPad with the appropriate software will be purchased to document each site's location via coordinates, pictures taken of the site, and an outfall inventory form completed. All information will be input to the City's GIS System for future use. Also a portable turbidity probe will be purchased to monitor sediment inputs to the municipal separate storm sewer system. In order to assess drainage pipe integrity, a storm drain pipe camera will be purchased. The project's budget will be \$700 for the iPad equipment, \$1500 for the portable turbidity meter probe and \$2000.00. The match for the project will be the salary for the temporary stormwater facilities inspector at \$3268.69.

The goal of the project is the protection of water quality through the monitoring of stormwater outfalls that enter waterways.