

# Leica Geosystems **TruStory** Stormwater Mapping Program, Covington, Georgia/USA



*"Using the Leica MobileMatriX solution makes the task of integrating field data in the enterprise GIS environment more manageable." (Issac Standard, Project Leader).*

**The City of Covington is located 35 miles east of Atlanta, Georgia. It is a "full service city" that has been maintaining an enterprise GIS since 1999. Currently, all updates to the GIS that require field surveying are conducted internally by the GIS Department.**

## **Project Description**

The task was to identify individual drainage networks and sub-basins from beginning to outfall, to survey all structures and determine network connectivity and to populate attributes for all accessible structures.

All of the project data was to be cataloged in ESRI's geodatabase format for subsequent engineering analyses of the city's stormwater infrastructure. "The Leica MobileMatriX interface is very intuitive and very easy because it is built on ESRI's ArcMap - a software we were already accustomed to using", said Isaac Standard, City of Covington GIS Project Leader.

## **Benefits**

"Leica MobileMatriX enabled the reduction of a dependency on consultants for survey data collection," said Standard.



## ■ **Scope**

In response to the Clean Water Act and NPDES stormwater requirements, the City of Covington is conducting an inventory of their entire stormwater infrastructure.

## ■ **Customer**

City of Covington

## ■ **Date**

January 2005 - present

## ■ **Project Summary**

### **Instruments**

Leica GRX1200 Reference Stations

Leica GPS1200 RTK rovers

Leica TPS800 total stations

Xplore iX104C2v TabletPCs

### **Field Software**

Leica MobileMatriX Professional Edition

### **Office Software**

ArcGIS/ArcInfo 9.1, ArcSDE with Microsoft SQL Server

### **Number of field crews**

2 two-person field crews

### **Deliverables**

A hydrologic and maintenance analysis of the city's stormwater infrastructure, including ESRI geodatabase feature classes of all corresponding stormwater features.

"Also, real-time quality control and visualization of data collection reduced the need for site revisits. This combination resulted in a considerable cost savings for the city and the increased efficiency provided by the solution allowed eminent NPDES Mapping deadlines to be met".

