

Ricky Wilmoth – GIS/CAD Specialist

Summary

Mr. Wilmoth is the GIS/CAD Specialist with GBM^c & Associates, Inc. He has five years of experience developing geographic maps and engineering drawings in support of comprehensive scientific studies. His experience includes the creation of various forms of descriptive maps for use in scientific analysis and engineering construction projects. The software packages used for the production of mapping projects include ESRI ArcGIS, Autodesk AutoCAD and Eagle Point Software.

Education

2001 AA Computer Aided Drafting and Design, ITT Technical Institute Little Rock Campus

2004 GIS for Conservation Professionals, US Fish and Wildlife Services, Shepherdstown, West Virginia

2006 Introduction to Geodatabases, Advanced Geodatabase Tools, Query Skills and Database Connections, MidAmerica GIS Consortium, Kansas City Missouri

Experience

GIS:

Mr. Wilmoth uses the ESRI ArcGIS platform with the Spatial Analyst extension along with other forms of GIS (Geographic Information System) software to create and develop digital georeferenced datasets for scientific analysis. Digital Elevation Models (DEM) are used for watershed delineations and drainage determinations. Land use datasets are also produced for land analysis of specific locations. GPS coordinates are routinely recorded during field surveys and the data is recorded in a GIS layer for future use and for locational quality assurance

He has been involved in numerous projects to determine watershed characteristics, identify facility locations in relation to surrounding features. These projects are frequently used to identify specific points determined by a particular coordinate system while a database for querying specific attributes of the data is compiled and maintained. Mr. Wilmoth has considerable experience in the use of coordinate systems and coordinate data conversions for the siting of environmental projects and the management of site and study maps.

Computer Aided Design:

As a draftsman, Mr. Wilmoth has been involved in design projects for several industrial clients including specialty chemical manufacturers, fiberglass production facilities, pulp and paper industry, and the poultry industry.

He has produced construction drawings for projects including the design of waste water ponds, wet deck staging areas, retention ponds, upgrading of a wastewater treatment system, secondary containment for industrial tanks, and a flow control structure. Mr. Wilmoth uses survey data collected and with software, creates topographic site maps used for construction, analysis and volume calculation.

Surveying:

Mr. Wilmoth has been directly involved with the collection and manipulation of data collected from site surveys. As a result of data collected, he has been responsible for the creation of detailed topographic site maps with features including creeks and ditches, road orientation, and the inclusion of various structures including buildings and railroads.

Field Sampling:

Mr. Wilmoth has been a team member responsible for the collection of various types of environmental samples including industrial process streams, soil, surface water, and wastewater. He has also participated in studies including the identification and determination of wetlands as part of the ACOE section 404 permitting program.
