Baton Rouge Water Company

Improves Accuracy and Increases Efficiency with Mobile GIS and Web GIS
BRWC Background

- Baton Rouge Water Company (BRWC) operates 53 pump station locations, 94 wells, and provides drinking water service to roughly 157,000 customers around Baton Rouge, LA.
- Until recently, BRWC field workers relied on paper maps or printed versions of electronic maps in the field.
- BRWC hired a consultant to recommend solutions that would make it easy to deliver GIS data to mobile workers.
- BRWC considered several options, ultimately selecting a configurable Mobile GIS and Redlining application for its powerful GIS tools, seamless integration with ESRI technology and ability to grow to meet the water utility’s future needs.
Mobile GIS Drivers

“The mobile solution dovetailed perfectly with our efforts to convert our data to ESRI. We could also tell that it would meet our immediate needs well and would also expand easily to meet our long-term business goals.” – Ryan Scardina, Technical Services Manager

“Prior to implementing this system, we relied on engineering drawings and paper maps that showed our entire water system. Field workers would have as many as 30 maps in their trucks, some of which were torn, inaccurate, or completely out of date.”
Project Overview

- Project Initiation and Requirements Definition (Business & System Requirements)
- Create Development Environment
- System Configuration and Testing
- Documentation (Administration & Configuration Documents)
- Onsite Software Installation and Testing
- Training
- Support Tasks
Application Deployment Tasks

- Configure groups, users, permissions, and work order routing (pre-deployment)
- Load supporting software and application databases on production server
- Load supporting software and application on mobile devices
- Configure GIS server synchronization
- Configure and test device synchronization
- Conduct user and administrator training
- Provide post-deployment support
Mobile GIS Functionality

- View most recent basemap and water-network layers. Data is synchronized daily with the central Geodatabase.
- User friendly map navigation tools.
- User preference settings and bookmarks.
Mobile GIS Functionality

- Identify and view attributes of different features on the map.
- Measurement tool.
- Screenshot tool.
- Search Address, Intersection, and GIS attribute data.
Mobile GIS Functionality

• View engineering drawings through a customized document viewer.
Mobile GIS Functionality

- Create, Edit and View redlines to relay inconsistencies to the GIS staff.
Mobile GIS Functionality

- Fill out Valve and Hydrant inspection forms electronically.
Mobile GIS Functionality

• Valve Isolation Tracing tool.
Mobile GIS Functionality

- GPS Tracking Controls
Desktop Functionality

Provide desktop user with tools to:

• Administer Users.
• Administer Mobile Devices.
• Administer Documents.
Desktop Functionality

Provide desktop user with tools to:

- View and process Redline Work Orders.
- View Redlines generated by field staff.
- View Valve & Hydrant Inspection Reports.
Web GIS Functionality

- All functionality in the Mobile GIS is available on the Web GIS with the exception of Redlining tools, Inspection forms and GPS Tracking
Web GIS Functionality
Document Viewer
Web GIS Functionality

Google Maps View
Web GIS Functionality
Google Street View
Benefits & Highlights

- Supports the BRWC’s succession planning goals by capturing employee and institutional feedback and knowledge.

- Delivers efficiency and cost savings by reducing the volume of calls to Engineering for map research by field staff.

- Puts up-to-date and accurate facility data in the hands of the people that need it most.

- Allows field staff to relay changes and discrepancies back to Engineering to maintain up-to-date facility data.
Questions?

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