

AGBreak – Water Main Break Isolation Tool

A GIS-based interface to isolate a water main break by identifying which valves must be closed and which customers will be affected by the break.

Applications

- Water main break isolation
- Maintenance & repair
- Customer service
- GIS integration

Features

The water main break isolation trace tool, AGBreak, can work from inside ESRI's ArcView or ArcGIS software packages. The user-friendly software allows the user to select the broken water main on the computer screen. The program then searches the water network to locate water system valves that are both open and operable and flags these valves for closure. The

application also identifies the affected customers in the isolated area. The identified valves and customers can then be output into a pre-defined report. The report format can be modified to meet the specific needs of our clients. The application requires only a connected network of pipes and valves in shapefile or coverage format. AGBreak is easy to set up, use, and customize. It can save the maintenance personnel significant time.

Benefits

- ▶ Quickly isolate the broken water mains.
- ▶ Rapidly identify the valves to close.
- ▶ Immediately identify affected water customers.
- ▶ Save time and money on maintenance and repair.
- ▶ Improve customer service.

Examples

AGBreak software has been successfully tested in several cities in Pennsylvania and Illinois. The above figure shows the installation in the City of Sycamore, Illinois.

