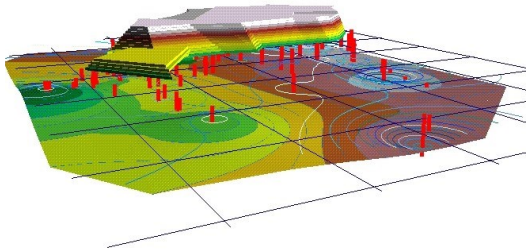


# Geographic Information Systems



Geographic information systems (GIS) technology takes a data-based, big-picture approach to displaying information through charts, reports, and maps. To establish relationships and patterns in data, GIS overlays data sets, or combines multiple data layers onto one another to view all relevant project information in a single, interactive instance.

As a result, GIS is a powerful tool to assist in understanding and answering questions regarding large amounts of data that are related by location.

KU Resources provides a variety of GIS services to support the needs of our various clients. These services include the management, display, and interpretation of property/area data such as:

- Parcel information,
- Floodplain data,
- Stream networks,
- Transportation networks,
- Topography analysis, and
- Wetlands inventories.

In addition, KU Resources uses GIS tools for the management, display, and interpretation of environmental quality data collected for the purpose of facility remediation or brownfield redevelopment.

Key features of GIS include:

- Displaying spreadsheet databases visually and spatially,
- Creating 2D and 3D models from these data, on or below ground surface,
- Integrating multiple data types together (such as CADD, Excel, historic maps, LiDAR),
- Calculating line-of-sight using topography and land cover data,
- Creating buffers and determining features within a certain distance of a site, and
- Performing statistical analysis of combined data sets from multiple sources.

## Project Example

