

# GIS and Environmental Data Management

## KEY Services

### Advantages

*KEY's data managers utilize "assembly line" data management process.*



*Data is warehoused securely, client accessible or delivered directly to your consultants.*



*Data is delivered electronically and updated regularly and may be exported into multiple formats and reports.*



*GIS/KEY™ extraction and reporting tools are available on CD-ROM or via Internet.*



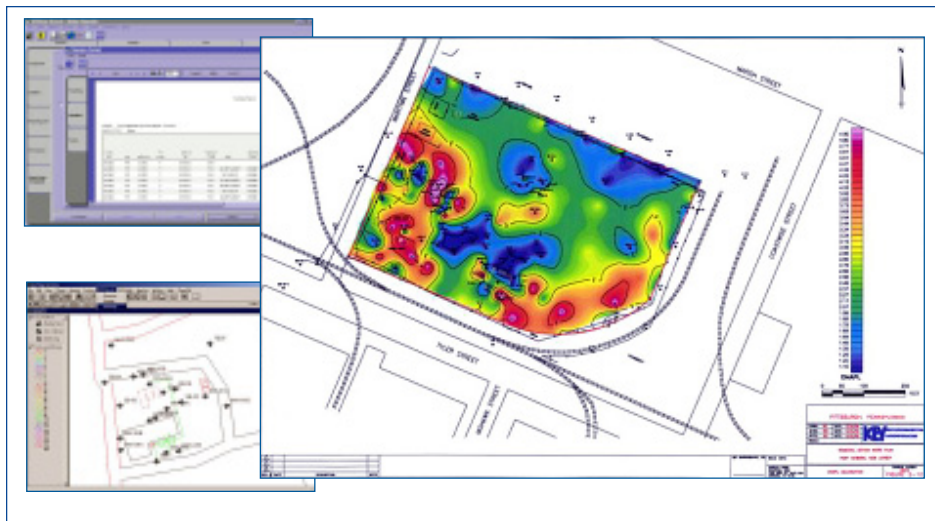
*Data can be delivered as a fully functioning GIS/KEY™ project. Turnkey systems are also available.*



*Electronic QA/QC of laboratory data is available.*



*Compatible mapping interfaces for AutoCAD™ and ArcView™ are available.*



*Chemical and physical data is combined to accurately show hot spots.*

Key Environmental Inc. (KEY) provides GIS and environmental data management services to clients on RCRA, CERCLA and a variety of state mandated and voluntary cleanup programs. Additionally, KEY provides GIS and environmental data management services for litigation support and to clients who are actively pursuing reuse of their sites through brownfield programs.

Environmental data management services provide the platform needed to bring together historic and contemporary data on sites that have ongoing investigations or are in need of regular submittals to regulatory agencies. KEY delivers complete and cost-effective data management solutions.

### Background

KEY utilizes GIS/KEY™ environmental data management software. GIS/KEY™ provides a GIS platform for the storage, manipulation and evaluation of environmental data including analytical, geologic and hydrologic information. GIS/KEY™ software is integrated with AutoCAD™ in order to geo-reference sampling points in

relation to site planimetrics, integrate aerial photography and to easily map and visualize environmental data.

### Benefits and Uses

GIS/KEY™ is a comprehensive tool that allows easy generation of "report ready" data tables and creation of boring logs, well construction diagrams and cross sections. Impacted areas are easily mapped and the results displayed to AutoCAD™ for integration into exhibits, reports and submittals. Analytical data may be directly imported in the GIS via laboratory generated electronic data deliverables (EDDs). This cost-effective tool reduces the potential for transcription errors and provides a rapid turnaround.



**Boring logs, chemical data, site location maps and topographic maps are combined using GIS to visually show chemical trends over time and to plot chemical concentration distribution throughout a study area.**

For sites where the goal is to develop a risk assessment, GIS/KEY™ has the ability to extract the statistical data necessary to develop risk assessments. The data is then made available to develop site-specific health based cleanup goals, risk assessments and sensitivity analyses.

Cost-effective site evaluations are achieved through the integration of historic data combined with contemporary analytical data and screened against applicable cleanup standards.

KEY has worked with numerous clients on their data management projects, including

- RCRA Sites
- CERCLA Sites
- Voluntary Site Cleanup Programs
- Former Manufactured Gas Plants
- Landfills
- Site Closures
- NAPL Recovery, Stabilization and Monitoring Projects
- Natural Attenuation Projects
- Brownfield/Beneficial Reuse Projects
- Litigation Support

A professionally managed GIS environmental database leads to oversight and redevelopment efficiency. Project team members and decision makers utilize properly managed spatial and analytical data. KEY's integration with GIS/KEY™ provides clients with cost-effective data management solutions resulting in overall project savings.

### Conclusion

Environmental data management represents a significant investment in time and money. The use of KEY's environmental data management services is a way to minimize conversion and development costs. KEY has full-time data management personnel who can provide the attention your project demands in a cost-effective and timely manner.

KEY's environmental data management services can provide a central repository for all of your site's environmental, geologic, hydrologic and ongoing monitoring data—providing an overall package that distills your site's data into one fully-documented project. We can provide your staff or consultants with your site's environmental data in a concise presentable format. Data may be exported into a variety of formats, including database files, spreadsheets, hard copy reports or CD-ROMs.

*KEY delivers  
complete and  
cost-effective data  
management solutions  
resulting in overall  
project savings.*



### KEY SERVICES

#### Remedial Investigations and Site Assessments

- Phase I Assessments
- Geophysical Evaluations
- Hydrogeological/Aquifer Testing
- Soil/Sediment Characterization
- Groundwater Characterization
- Fate & Transport Evaluations
- Risk Assessments
- Natural Attenuation Assessments
- GIS/GPS/Data Management

#### Environmental Engineering

- Feasibility Studies
- Remedial Design
- Turnkey Projects
- Construction Management
- Construction QA/QC Oversight
- Monitoring/Reporting
- System Operations

#### Program Support

- Permitting
- Regulatory Support
- Expert Witness and Reports
- Contractor Procurement
- Decommissioning/Demolition

### KEY OFFICES

#### Pennsylvania (Corporate)

1200 Arch Street, Suite 200  
Carnegie, Pennsylvania 15106  
P: (412) 279-3363, F: (412) 279-4332

#### New Jersey

456 Route 22 West, Suite D  
Whitehouse Station, New Jersey 08889  
P: (908) 534-4501, F: (908) 534-6785

#### New England

185 Lancaster St., Ste. 304  
Portland, Maine 04101  
P: (207) 772-8100, F: (207) 772-8101

[www.keyenviron.com](http://www.keyenviron.com)  
[mailbox@keyenvir.com](mailto:mailbox@keyenvir.com)