



Environmental Data Management

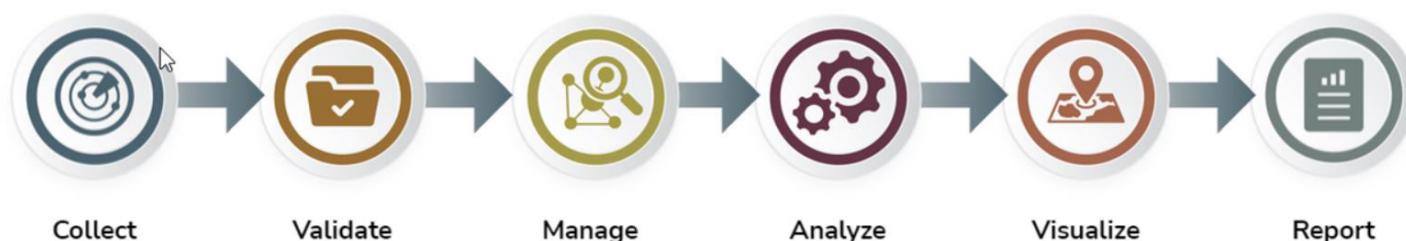
Our collaborative Data Management and Analytics (DMA) team helps project teams collect and configure large data sets to meet project specifications. Acting as liaison between the project staff, analytical laboratories, data validators, and GIS analysts, we develop and use data-validation tools in Excel, EQulS (from EarthSoft), Access, and SQL to identify and solve data-quality problems.

The DMA work begins by collaborating with project teams. Each environmental project requires extensive planning and coordination ahead of time to ensure the most efficient workflows and data analyses. The project team collects samples at a site, generates the chains of custody, and sends the samples to labs for processing. Langan uses EarthSoft's environmental data-management system (EQulS) to store analytical and field data in a central repository.

The DMA team works with labs to set up a customized Langan electronic data deliverable (EDD), which is one of the most extensive standard EQulS formats. The EDD contains sections for location, lab, and field data. The standard one-time setup process for customized EDD, an EQEDD, used throughout the firm is easily implemented and is transferable to other consulting firms when working with a client.



"Collect Once, Reuse Many Times"



Environmental Data Management

Langan's project teams send their field data to the lab, which is then processed into an EQEDD and sent to the DMA team. The project teams will then send a request form to the DMA team with information about what types of exports they need. The analytical data within the data deliverables are also put through our data-validation process—depending on regulatory and client requirements—to ensure that the data are sound and available for analysis and decision making, and to reduce risk to our clients. The data are then reviewed, revised and loaded to the Langan database according to Langan's standard operating procedures.

Langan's EQulS database supports environmental characterizations for sites regulated under federal and state compliance programs. Langan stresses the importance of using standard data-management processes throughout the firm. Since these data are easily transferable to other consultants or regulatory agencies, Langan's use of standard processes enhances collaboration within the firm and with clients and the land development industry.



Software Partners:



Microsoft
Partner

Contact:

Brett Milburn
GISP

Director of Applied Technologies
215.491.6555 | bmilburn@langan.com

LANGAN