

StrataExplorer

Quick Facts

StrataExplorer is comprised of a base application and several extension modules. The base application consists of the following components:

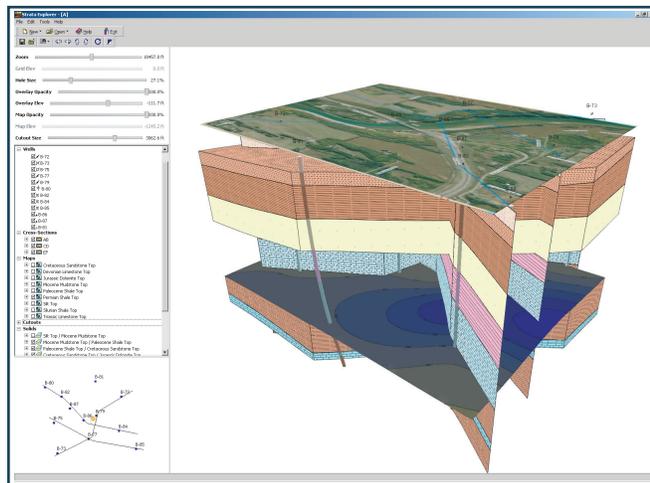
- SE-GIS Module
- Database Management
- License Management
- 3D Display
- Import/Export
- Buildings and Excavations Module (SE-Structures)

The following optional extension modules are currently available:

- Environmental Data Management (EDMS)
- Well and Boring Log Module (WinLoG)
- Cross-section Module (WinFence)
- Gridding and Contour Module (SE-Map)

The base application of StrataExplorer is currently being offered for free.

Subsurface Mapping and Data Management



StrataExplorer is an application suite for subsurface mapping, data management, and resource evaluation. The program can be used to evaluate contaminants, soil and rock properties, minerals, oil and gas deposits, and oil sands. It is ideal for the environmental, geotechnical, mining, oil sands, and petroleum industries.

The program is composed of a base application and several extension modules. The base application of StrataExplorer is used as a platform that all of the other modules build upon.

Projects are the primary building block of StrataExplorer and are used to encapsulate all the data in the application. The primary data sources in the application comes from samples, wells and borings. The well and boring module is a major upgrade of our very popular WinLoG program. After the data has been entered it can then be used to create cross-sections and contour maps. The cross-section module represents a major upgrade of our popular WinFence program.

In addition to subsurface data, the application can also be used to create and display 3 dimensional buildings, structures, and excavations. All of the samples, wells and borings, cross-sections, contour maps, layers, GIS data, buildings, structures, and excavations entered in a project can be displayed in 3D.

Geographic Information System

The GIS module provides the geographic information system (GIS) for the StrataExplorer base application. It is used as the primary display and selection interface for the base application. Without the GIS the application will display of list of projects only and not display basemaps.

The GIS stores all of the basemap, project, station, sample, well, boring, cross-section, and other spatial data for the application.

In StrataExplorer, basemaps represent the geographic information as a collection of layers. These layers contain different datasets that are overlaid on the basemap.

GIS layers can include satellite images, aerial photos, roads and streets, pipelines, railway lines, flood zones, municipal zoning, terrain, topography, and demographic data.

There are a wide variety of sources of the layer data, some data is provided with the program and other data can be obtained from our various partners and government sources.

There are now two types of basemaps, web map services or static.

Web Map Services

Web map services use a standard protocol to serve georeferenced map images over the Internet. This protocol was developed and published by the Open Geospatial Consortium.

Several web map services are available within the application and more are being added with each update.

Static Basemaps

These basemaps consist of a set of georeferenced layers (shape files) for different parts of the world.

Once a predefined static basemap has been created, additional GIS layers can be added.

