

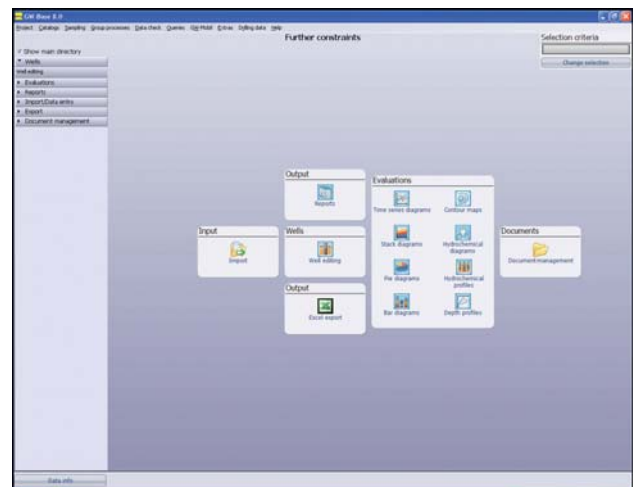
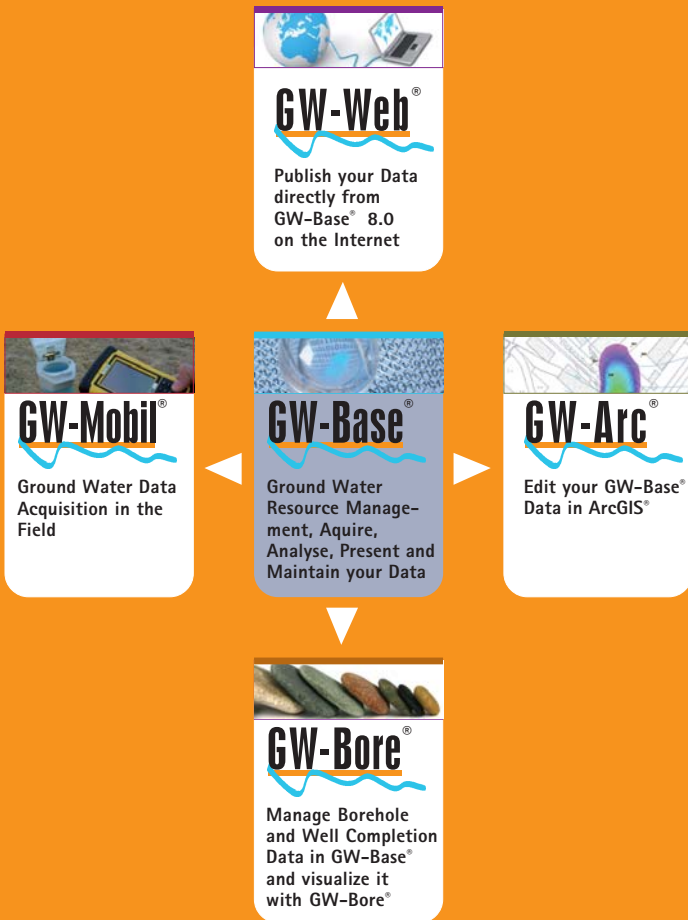


The new

GW-Base[®] 8.0

For a Professional and Efficient
Groundwater Resource Management

Ground water monitoring generally accumulates large amounts of data, which makes it difficult and time consuming to maintain an overview of the qualitative and quantitative development of your ground water resource. GW-Base[®] is a powerful software solution specifically designed to help you handle your ground water data through a highly effective, yet easy-to-use, package of management analysis, plotting, and reporting tools. GW-Base[®] enables you to collect, maintain and analyze all your data using one single program, which gives you a more accurate and convenient overview of your data. You can manage all your ground water and hydrogeological projects with GW-Base[®], no matter what the project size: gas station remediation with three observation wells or ground water monitoring project with many thousands of observation wells.



Data Management

GW-Base® 8.0 has a very clear layout and can be used intuitively. This makes it easy for the user to keep a good overview of the data and to maintain the data set, even if the amount of data is very large.

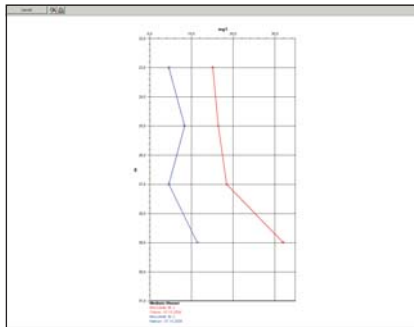
The following data can be managed using GW-Base® 8.0:

- geologic data, SEP3 and GeODIN compatible water level data
- sampling and analysis data
- threshold values
- discharge data
- logger data
- rainfall data
- legal requirements
- data on technical equipment

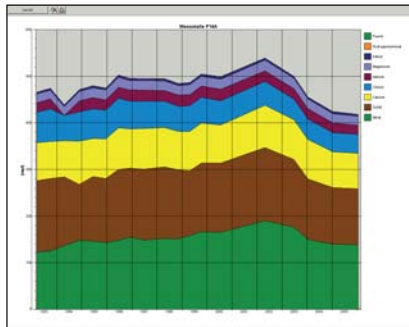
- documents
- appointment schedule
- topography data
- maps

Graphical Evaluations

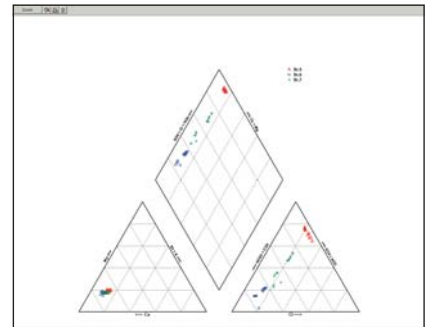
GW-Base® offers a wide array of tools for the graphical evaluation and display of ground water data. All these tools come with a large amount of options for customizing the layout of the graphics. The evaluations can be exported out of GW-Base® 8.0 as image files (BMP, EMF, WMF) or directly printed as a PDF file with the option of entering further information to the legend (appendix number, editor, subtitle, etc.). Contour maps and pie diagrams can additionally be exported as shape files, enabling later editing with e.g. ArcView®/ArcMap®.



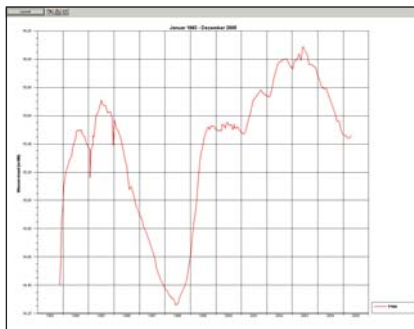
hydrochemical depth profiles



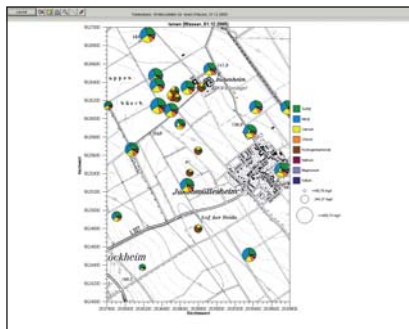
stack charts



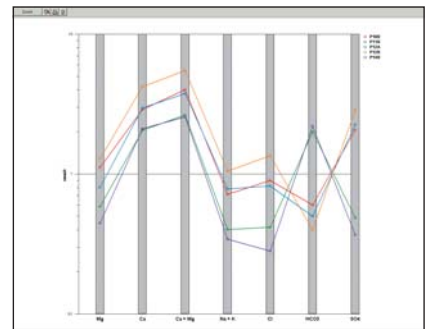
piper diagrams



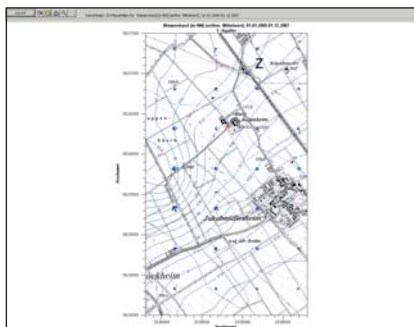
time series diagrams



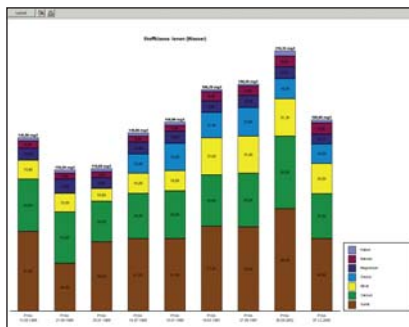
pie charts



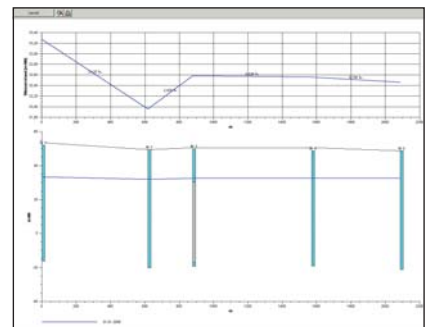
schoeller diagrams



contour maps



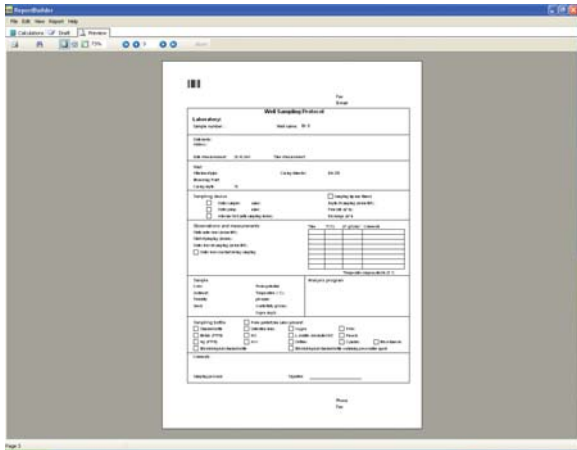
bar charts



hydrogeological cross sections

Reports

The report templates of GW-Base® 8.0 facilitate the duty of regularly submitting reports. You can create, modify and manage an unlimited amount of report templates. The report tool makes it possible to conveniently select data in GW-Base® and export it in form of a printable report with completed layout.

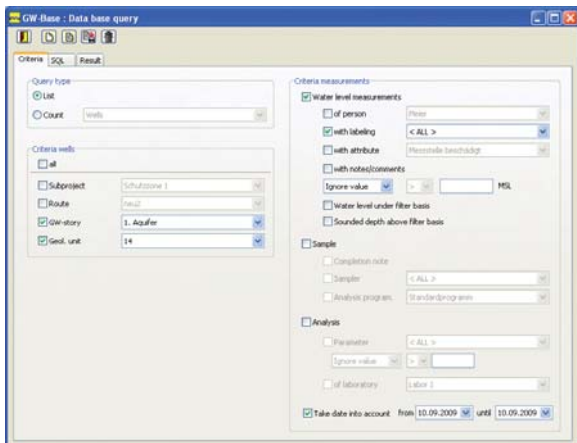


Thresholds and Queries

With GW-Base® 8.0 several thresholds can be assigned to every parameter. The threshold tool of GW-Base® 8.0 is used to identify threshold breaches. It is possible to choose between queries relating to a single parameter and combined queries (e.g. all samples with a chloride value above X mg/l that also have a potassium value below Y mg/l). The result of the query can be exported as an Excel file or as a report.

With the query tool of GW-Base® 8.0 complex data base queries can be carried out regarding water level measurements, sampling and analysis results. You can use the tool to conveniently check e.g. when and in which wells the water level reading was below the filter bottom or which samples were taken by Mr. Miller during the year 2009 in protection zone 2.

GW-Base® 8.0 also has a tool for directly entering SQL queries.



Data Security

The new GW-Base® 8.0 enables you to easily and quickly create backups of your data. When carrying out a backup GW-Base® makes a copy of the entire data base of the selected project and saves it as a compressed file (ZIP file) to a user-defined drive.

Statistic

Statistical data for every well, such as arithmetic mean, absolute maximum or mean value of the minima, can be conveniently determined employing GW-Base® 8.0. For the calculation of the hydraulic data the user can define the start of the water year.

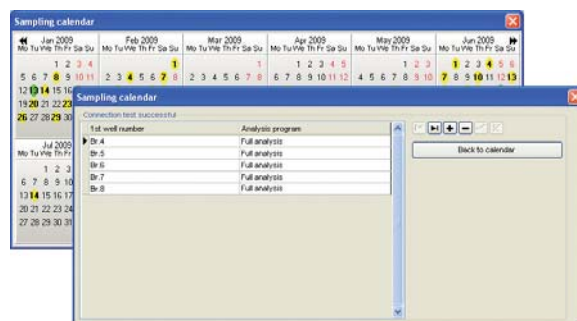
It is also possible to determine statistical values concerning discharge rates with GW-Base®. All statistical calculations can be exported as Excel files.

Coordinate Systems

Using GW-Base® 8.0 one can carry out the conversion of Gauss Krueger coordinates to universal UTM coordinates by translating all coordinate-related data: basic well data, map data and topographic data. The UTM coordinates are kept in separate data base fields, so that you can always change the coordinate system you want to work in.

Sampling Management

The sampling calendar of GW-Base® 8.0 is a powerful tool for planning and managing sampling campaigns, analysis programs and report days. The well selection, parameter range and the day of sampling are saved in the sampling calendar, enabling you to generate sampling protocols and automatically enter the relevant parameter fields into the data base of GW-Base® 8.0. The color display of the calendar identifies the current date as well as completed and coming sampling campaigns and helps you to keep a good overview of your monitoring duties.



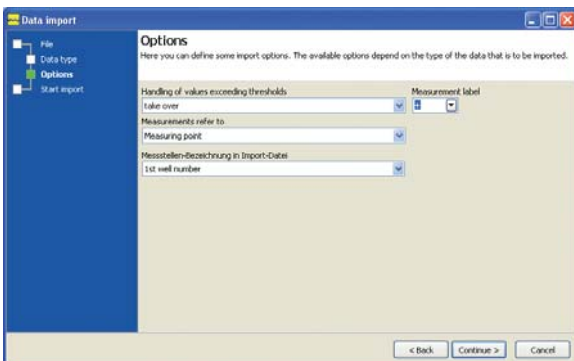
Import

The import tools of GW-Base® 8.0 are equipped with import assistants, that lead you step by step through the import process. This enables even users who are not familiar with the program to import data into GW-Base® without difficulties.

The use of data loggers in ground water monitoring is permanently increasing. We have taken this development into account by integrating the previously separate module GW-Logger® into the standard version of GW-Base® 8.0. One can now import the read-out files (TXT or ASCII format) of the various logger manufacturers into GW-Base without having to first convert or format the files. Furthermore, it is possible to check the data and if wanted, reduce the data, e.g. to daily mean values, before importing it.

Data from loggers that is sent via remote transmission to an FTP server can be imported, fully automatically and time-controlled, by GW-Base® 8.0 from the FTP server.

GW-Base® 8.0 has an import management tool that makes an entry after every import process containing the following information: date, editor, as well as content, name and directory of the imported file. As long as the entry of an import process has not been deleted from the import management tool it is possible to undo the import.

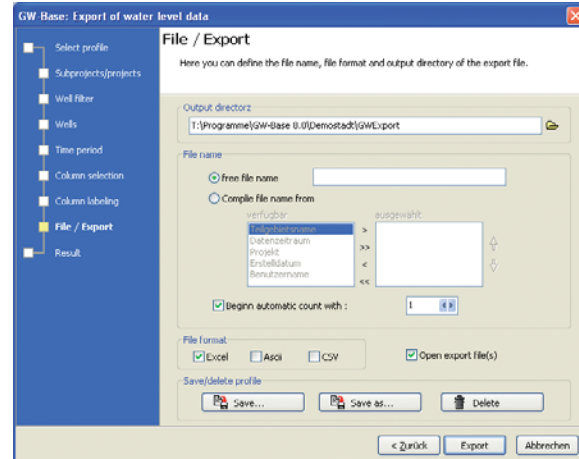


Export

The export tools of GW-Base® 8.0 are also equipped with assistants, that help the user entering the necessary information (type of data, well selection, time period, etc.) before he exports data.

GW-Base® 8.0 offers many new options when exporting data. It is for example possible to export data of selected parameters, instead of having to export all analysis data

and then remove unwanted parameters from the export file. For the regular forwarding of ground water levels an extra tool has been developed, that e.g. can generate the name of the export file automatically following user-defined rules. Data can also be directly exported to GW-Web®, so that colleagues, customers or authorities with the required authorization can access the data over the internet.



Special Interfaces

The import and export of data from one system to another can be complicated and time-consuming. In order to facilitate this process for our customers we have developed a wide range of special interfaces and are also always willing to create new customer-specific interfaces.

Our more than 1000 customers from around the world are:

- water suppliers
- water authorities
- environmental authorities
- mineral water companies
- universities
- research institutes
- consultancies
- sanitary landfills
- industrial companies
- the petroleum industry
- and all who work with ground water data related data