HydroGeo Analyst 4.0



 Expanded Data Connection to Popular Industry Programs

- Vast Improvements to Core Functionality
 - More Graphical Display Options



Organize your data, streamline project workflows, and deliver projects more efficiently with HydroGeo Analyst

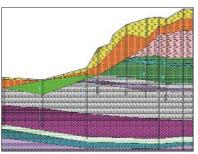
HydroGeo Analyst (HGA) is the only groundwater and environmental desktop software solution that consolidates a wide range of functionality and capabilities into a single working environment. From borehole logging and mapping, to cross-section interpretation and three-dimensional visualization, HydroGeo Analyst seamlessly provides the core tools necessary for delivering projects. Now, HydroGeo Analyst v.4.0 offers even more!

What's New in v.4.0?

- Dramatically improved Map Manager functionality (scale, legends, color shading, plots, etc.)
- Expanded control in Cross-Section Editor (legend display, axis control, printing scale, etc.)
- Refreshed Borehole Log Plotter (redesigned GUI, enhanced graphical display settings, etc.)
- Greater control over time series charts and cross-tab queries
- More unit options for storing field and laboratory data
- Connect HGA projects directly to **AquiferTest Pro** for indepth analysis of aquifer properties
- Communicate between HGA and AquaChem for advanced aqueous geochemical analysis
- Quickly develop input data for Visual MODFLOW and FEFLOW® (model layers, maps, etc.)
- Import **Diver*** datalogger files for indepth investigations, mapping, and reporting

For more information or to obtain a demo, please call (519) 746-1798.

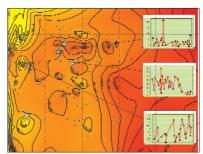




Flexible cross-section functionalities



Perform color shading and contouring



Display summary results in the Map Manager



Your Complete Hydrogeological Toolbox Manage | Analyze | Visualize | Report

User Access Management	 Application Level - control permissions to features such as creating new projects, backing up and restoring databases, etc. Project Level - control access to individual projects and the various tasks (eg. data access, maps, queries, templates, etc.) 	 Create and manage user groups (eg. create, edit, delete user groups, and add, remove, edit, users into existing user groups) Enforce access levels assigned to each user group
Data Transfer System	 Import data from virtually any source including: Text files (CSV), MS Excel™ (XLS), MS Access™ (MDB), SQL™ Server Import data directly into pre-defined database templates for widely used environmental database schemas 	 Quickly export data to various formats including text, spreadsheets, MS Access database, SQL Server Easy exchange of data between GIS and CAD environments
Data Exchange	 Import Diver .MON files to display and interpret data <i>NEW</i> Exchange data from HGA into AquiferTest Pro to analyze water level data and characterize hydrogeological units <i>NEW</i> Link water quality data with AquaChem for in-depth analysis <i>NEW</i> 	 Prepare and manage Visual MODFLOW input data in HGA for conceptual model development NEW Pre-process data in HGA for use in FEFLOW® geologic models NEW
Queries	■ Develop advanced queries for virtually any parameter ■ Export crosstab queries to PDF, HTML, or MS Excel™ format	■ Efficiently map query results directly to the Map Manager ■ Quickly generate simple or complex data statistics
Time Series Plotting	 Create time-series plots based on data queries Add best fit, trend, formula, or statistical lines to the plot Display uncertainty or detection limits 	 Interactive, simultaneous display of multiple plot windows Display one or more water quality standard values as a line or symbol, for quick detection of samples that exceed the standards
Quality Control	 Analyze duplicate, spiked and blank samples: Compare relative percent difference and coefficient of variation Analyze percent recovery for spiked samples Compare blank samples to method detection limits 	 ■ Execute a quality analysis on a selected dataset ■ Save assessment results to a MS Excel™ spreadsheet ■ Define one or more lab quality assessment templates ■ Monitor unit inconsistencies and filter anomalies
Chemistry Data	 Create sample schedules including sample locations, media, dates and parameters to be measured Import analytical lab results from many file formats Seamless data validation and error checking during data import 	 Display concentration data on time-series plots Conduct statistical analysis on your chemistry data using standard functions (AVG, MIN/MAX, STDEV, SUM, VAR, etc.) Display summary results with exceedences highlighted on the GIS map
GIS Map Manager	 Create and export colour shaded maps to display data NEW Display timeseries plots linked to stations on maps NEW Choose intersecting layers to create new layers NEW Group layers in the legend to help simplify map data management NEW Create contours using selected stations and/or restrict the lines to a digitized shape NEW Improved legend for displaying layer details with graduated or value rendering NEW 	 Add grid lines to maps to pinpoint exact locations of interest NEW Import maps with accuracy using two to three georeference points NEW Import and display raster data (DEMs, Surfer and ESRI® grid files) NEW Import an array of basemap formats Quickly contour data from pre-defined queries or station data Interpolate any data layer(s) and generate grided data files to visualize in 3D-Explorer Display summary results on map in a tabular format, and modify display properties of table (color, style, fields)
Cross-Section Editor	 Import cross-section lines from shapefiles NEW Modify cross-section buffers, axis or vertical exaggeration NEW Pan and zoom while defining cross-section lines and snap lines to stations with a click of the mouse NEW Reorder cross-section legends for highlighting important cross-section features NEW Set desired printing scale of cross-section NEW 	 Use DEM data to display true topography between wells NEW Create geological, hydrogeological, and model interpretations Interpret model layers for use in groundwater models Query and map interpretation results (eg. overburden thickness) Display borehole log plots directly on cross-sections (e.g. display geophysical plots on the cross-section to assist in the interpretation) Select standard or custom cross-section fill patterns
Borehole Log Plotter	 Display well nests, reducers and telescoping casings NEW Display selected water levels (max, min, avg, first, last, etc.) with customized symbols NEW Display annular fills in boreholes and between piezometers NEW Customize display settings (casing color, image patterns etc.) NEW 	 Display multiple data series on a single borehole log plot column to better display depth profiles for multiple contaminants, downhole geophysical logging data, or other depth dependent data Borehole logs are mapped directly from the data source Choose from a selection of pre-designed borehole log templates
HGA 3D-Explorer	 Render colorful, high-impact, 3D cross-section views Display 3D plumes directly from source data Generate static or transient plumes for one or more contaminant(s) Create .AVI animation files for use in presentations 	 Calculate volumetric results based on the isosurface values Display concentration color maps along a cross-section line or horizontal YZ, XZ plane, and specify cut-off limits Display concentration contour lines with multiple property options
Report Editor	 Create and save unlimited number of dynamic report layouts Incorporate data values, tables, logs, cross-sections, 3D views, maps, etc. Export reports to various file formats (eg. PDF, HTML, RTF, etc.) 	 ■ Dynamic linking of reports to HGA data and components automates the report creation process ■ Supports MS Visual Basic™ Script and JavaScript events/expressions



