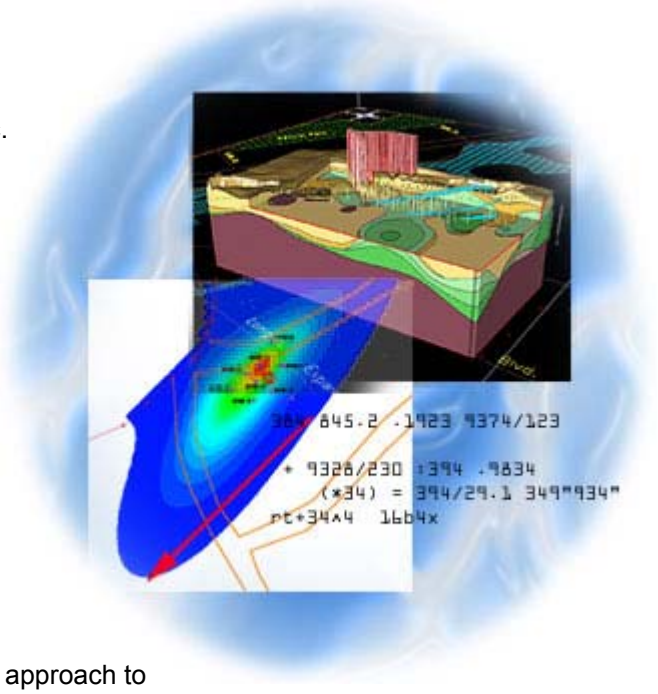
What is EarthVision™?

EarthVision® (EV) is a proprietary, integrated software system produced and distributed by Dynamic Graphics Inc. of Alameda, California. EV is specifically designed for earth science professionals seeking to synthesize a wide variety of geo-spatial data into comprehensive conceptual models through which data can be visually and quantitatively analyzed through either deterministic or geo-statistical interpolation schemes. The strength of using EV lies in its unique ability to describe the geologic framework of a site and then incorporate parameter data, such as contaminant concentrations and permeabilities and engineering data such as borehole and tunnel orientations into the geologic framework. The fundamental utility of an EV model is the accessibility to data and interpretations it provides to a wide variety of users.



How do we Use EV?

Earthvision provides the basis for Hazlett-Kincaid's unique approach to modeling and environmental problem solving.

The Dual Modeling Approach

At Hazlett-Kincaid, Inc., we take pride in our comprehensive and consistent approach to water resource management and environmental site characterizations. By "comprehensive," we mean the synthesis of all available hydrogeologic data into site-specific conceptual models that function as central databases, which in turn, facilitate the interpretation of existing hydrogeologic conditions and subsequent predictive modeling efforts. We describe this as a Dual Modeling Approach™ wherein existing data and interpretations are incorporated into a Geologic Framework Model (GFM), which then serves as the framework for predictive modeling that constitutes a Hydrogeologic Site Model™ (HSM).

The purpose of the GFM is to incorporate geologic as well as hydraulic, contaminant and structural data into a grid-based, visual, and query-able interpretative model of existing conditions. EarthVision® (EV) is the best modeling software for the development of a GFM because it uses deterministic and/or stochastic methods to model spatial relationships between geologic contacts, parameter distributions, contaminant concentrations and engineered features in the subsurface. EV then provides for the combination of any or all of those data interpretations into a digital model that can be manipulated visually and mathematically.

The HSM™ uses the gridded data exported from the GFM to define grid frameworks and initial conditions for predictive modeling efforts. Results of the predictive modeling, be that heads, particle tracks, or contaminant concentrations are exported back to the GFM for visualization such that those results can easily be evaluated in the context of the central site conceptual model.

There are many benefits of a Dual Modeling Approach™ to groundwater resource management and site characterization efforts. The development of a GFM independently provides for better interpretations of site data, increased access to those interpretations, and the ability to rapidly update model interpretations as new data becomes available. Combining the geologic and hydrologic modeling processes provide for easier and more effective evaluation of model results because the results are always framed in the context of a single centralized 3-D site conceptual model.

Simply put – EarthVision is the best solids modeling and visualization tool on the market and we leverage that tool to provide cutting edge consulting for our clients.

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