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VISUALIZATION OF GROUNDWATER CONTAMINANT PARAMETERS

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ABSTRACT. Numerical groundwater contaminant modeling is a powerful tool to study the extent of subsurface contamination. Three-dimensional contaminant transport models can predict the future lateral and vertical extent of contamination. Geotechnical and hydrological data is required for the calibration and operation of such models. Understanding the interrelationships of the enormous volumes of data required becomes an onerous task. Visualization of both the input and output data aids the researcher in calibration and comprehension of numerical model results. This paper describes the integration of three-dimensional computer visualization with geotechnical and hydrological parameters for numerical groundwater contaminant modeling. Visualization of subsurface parameters in 3-D can yield insight into selection of the best approach to groundwater contaminant modeling and provide efficient and accurate methods for presentation of results.

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