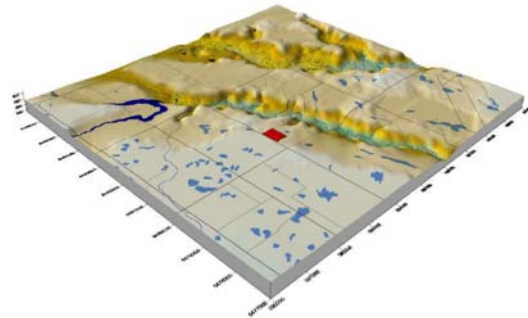


Compilation and evaluation of 20 years of water level and chemical data at a plant site using the proprietary program HYDRODYNAMIK [HD]

Project Location:	Petroleum industry plant site in Saskatchewan
Client(s):	Confidential
Date Completed:	2005
Project Budget:	\$ 50,000



3D-Digital Elevation Model (DEM) of closer surroundings of plant site.

Project Summary

Typically, historical groundwater monitoring at petroleum plant sites has accumulated a wealth of annual monitoring reports and data often compiled by a variety of consultants. The reports are usually available as paper copies only and thereby excluded from modern evaluation techniques. Mining the data for particular day to day purposes is time consuming and thereby usually avoided.

A proprietary hydrogeological data documentation and evaluation program has been in development since 1995 to facilitate the transfer of data from paper or distributed electronic form into a coherent electronic system. This program made it possible for us to efficiently compile, error check, correct, document, and analyze twenty years worth of accumulated data. All data can now be accessed and visualized immediately.

Services Provided

- * Extracting all available data from paper reports and available spreadsheets.
- * Error checking all data by graphical display in construction diagrams of piezometers, on maps, on cross-sections, and within time series. Correct erroneous data for obvious and systemic errors. Documentation of all changes.
- * Compilation of a database for HD.
- * Preparation of an encompassing paper report, with all data contained in easily accessible tables and figures, and the evaluation of groundwater flow and associated migration pattern of dissolved constituents.

Deliverables or Results

- * Corrected data in electronic format.
- * Evaluation report containing all data in tables and diagrams.