

North Dakota State Water Commission

Plotting map points directly to 4D v11 SQL

Water is one of North Dakota’s most precious natural resources.

4D v11 SQL makes it possible for the State to integrate complex mapping services within the traditional data management framework to incorporate management of the spatial component of the water resource data.

This flexibility makes it possible to provide a comprehensive data management solution that addresses all of the accounting requirements associated with monitoring North Dakota’s water resource systems while also providing integrated engineering resource services, mapping services, and Web delivery features.

The North Dakota State Water Commission has been using 4D as their primary management platform since 1990 and in the past year has upgraded this infrastructure to 4D v11 SQL. Because of its support for open standards, 4D v11 SQL can easily be extended to include resources and tools

typically beyond the scope of a traditional data management system. This has made it fairly easy for the North Dakota State Water Commission to implement complex GIS (Geographical Information System) functionality as an extension to the overall management solution for North Dakota’s water resources.

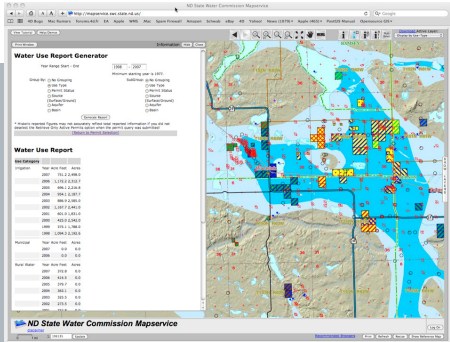
“There isn’t much 4D v11 SQL can’t do and no other application around that can do what I can do with 4D v11 SQL.”

With the introduction of Web Area and expanded JavaScript support within Web Area, 4D v11 SQL has been especially beneficial to the Water Commission. For the first time, live, interactive mapping services have been integrated within the data management system. This has completely eliminated the need for the Water Commission to maintain a secondary GIS shadow

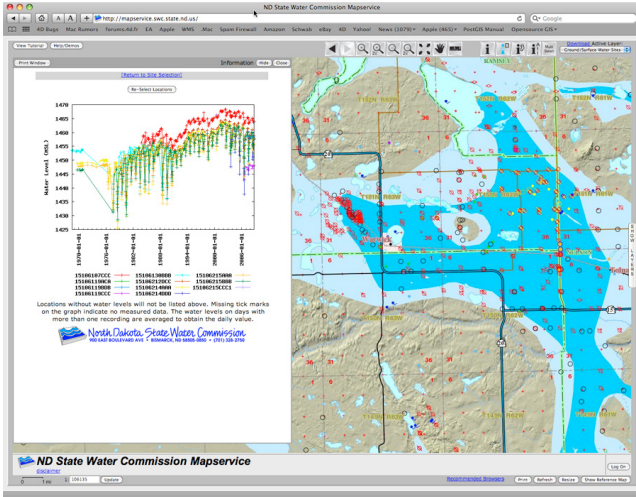
system for purposes of managing the geographic aspect of the water resource data.

Additional benefits of integrating the map services within 4D v11 SQL are gained through the elimination of redundant

- WHO: North Dakota State Water Commission
- WHERE: <http://www.swc.state.nd.us>
- WHAT: Government agency
- HOW: 4D v11 SQL, Web Area



development. The same mapping services that are used to push the data to the general public are also integrated within the agency management applications using Web Area in 4D v11 SQL.



4D v11 SQL has made it easy for the Water Commission to provide access to most of North Dakota's water resource data with little or no additional effort. All of North Dakota's water resource data including well information, water level data, precipitation information, drillers logs, and much more is easily accessed through the agency map service (<http://mapservice.swc.state.nd.us/>). Separate map services

are also available for North Dakota's Government Land Surveys with information dating back to the mid-1800's.

The native SQL engine of 4D v11 SQL allows the Water Commission to tie together all of its databases onto just two servers, with access to over 4 million records. Even with the heavy load, 4D v11 SQL servers remain fast and responsive.

"There is absolutely no compelling replacement to the 4D platform," says Chris Bader, IT Manager of the North Dakota State Water Commission. "There isn't much 4D v11 SQL can't do and no other application around that can do what I can do with 4D v11 SQL," continued Bader.

Be among the group of 4D developers that use features such as Web Area or utilize open standards such as JavaScript that can only be accomplished with the power of 4D v11 SQL. Upgrade today.